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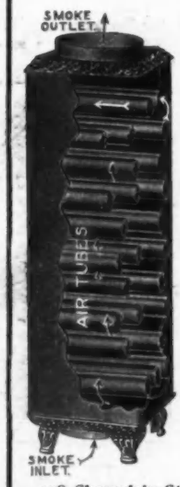
The American Artisan
THE HARDWARE RECORD

Volume 42.—No. 3. CHICAGO, JULY 20, 1901. $2.00 Per Year.

Crying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark; you—know—what—you—are doing—but—nobody—else—does.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

Lane Bros. Co.,
POUGHKEEPSIE, N. Y.



Independent Square Stove Pipe Radiators.

Radiating Surface right.
Look Right.
Price Right.
All Right.

If you want the latest in Radiators, ask us.

Independent Register Co.
158 Champlain St., Cleveland, Ohio.

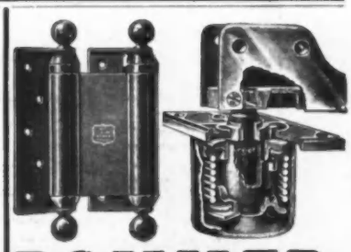
Our Facilities

are unsurpassed by any firm in the United States for the manufacture of

Stove Bolts,
Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

We have a large *clientele* among stove men who appreciate our high quality, prompt deliveries and attractive prices. Let us hear from you.

Atlas Bolt & Screw Co.,
Cleveland, O.



BOMMER SPRING HINGES.
BOMMER BROS. BROOKLYN, N.Y.

FOR AMERICAN SEAL

Elastic Oil Roofing Cement
Stove Putty,
Asbestos Furnace Cement,
and paints for inside and outside use on any surface.

Wm. Connors Paint Mfg. Co.

WESTERN AGENTS
J. L. PERKINS & CO.,
241 Lake Street, - - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

This Space for Sale
Inquire of Owner
Daniel Stern, 69 Dearborn St.
CHICAGO.

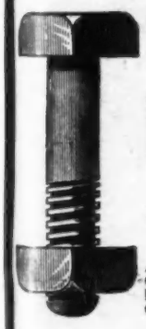
Black Diamond Files and Rasps.
PERFECT—ALWAYS

Twelve Medals Awarded

At International Expositions.

G. & H. BARNETT CO.,
Black Diamond File Works. Philadelphia, Pa.

Columbus Bolt Works,
Columbus, O.



Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and
Bolts
ALL KINDS OF CARRIAGE FORGINGS. ON APPLICATION. CATALOGUE

THE "GLOBE" VENTILATOR,
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

FOR PERFECTLY VENTILATING
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED.
"Globe Ventilated Ridging"
Send for Pamphlet.

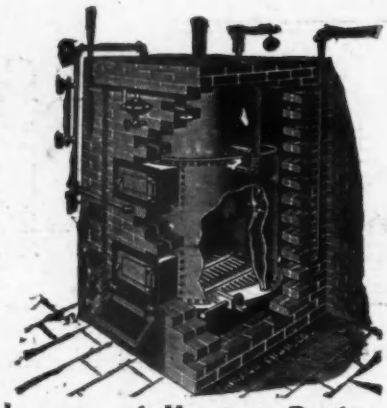
Manufactured by
GLOBE VENTILATOR CO., TROY, N. Y.

BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY
Lake and Dearborn Sts., CHICAGO.

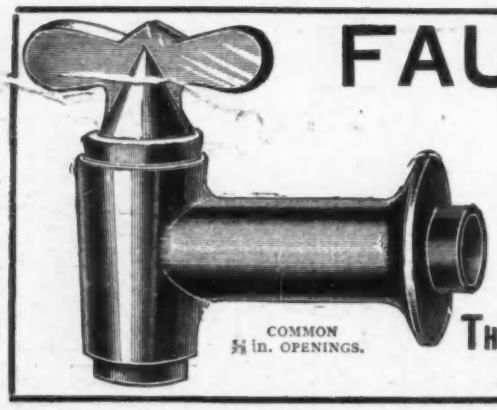


Improved Haxtun Boiler

For Steam and Hot Water Heating. Magazine Feed. For Soft and Hard Coal. 15 years' successful use.

Kewanee Boiler Company, Kewanee, Ill.

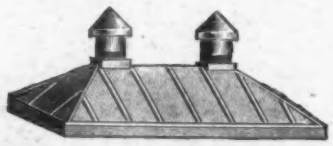
Chicago Store 167-169 East Lake St., Chicago.



FAUCETS.

Beer
Milk Can
Oil Can
Cream Separator,
of Various Sizes and Styles.
MF'D. BY
THE CLARK NOVELTY CO.
ROCHESTER, N. Y.

COMMON ⅝ in. OPENINGS.



"The Illinois"

METALLIC SKYLIGHTS

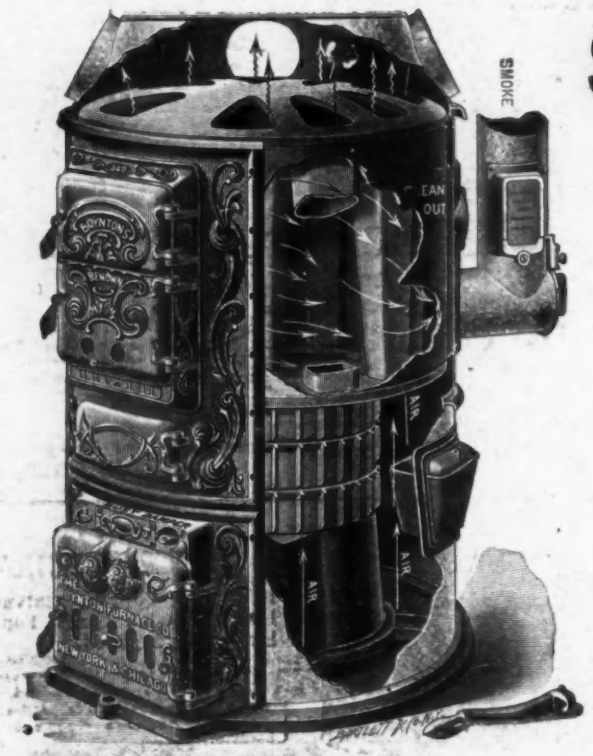
Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL

G. G. Arbogast, Monterey, Va., writes: "I beg to take advantage of your kind offer of inserting a free want ad. in your journal. Am a regular subscriber to The American Artisan, and I can tell you, without an iota of flattery, that I find it indispensable."

The making of heating apparatus—

Hot Water Heaters, Steam Heaters and Furnaces,



is our Specialty. In over fifty years of experience we have met with about every phase of the heating problem. The manufacture of economical and durable heating apparatus has been our constant aim, and our success has been fully demonstrated by our long continuance in this line.

REMEMBER, efficiency and durability are the sure tests of cheapness.

Catalogues, Price Lists and Discounts cheerfully furnished the trade.

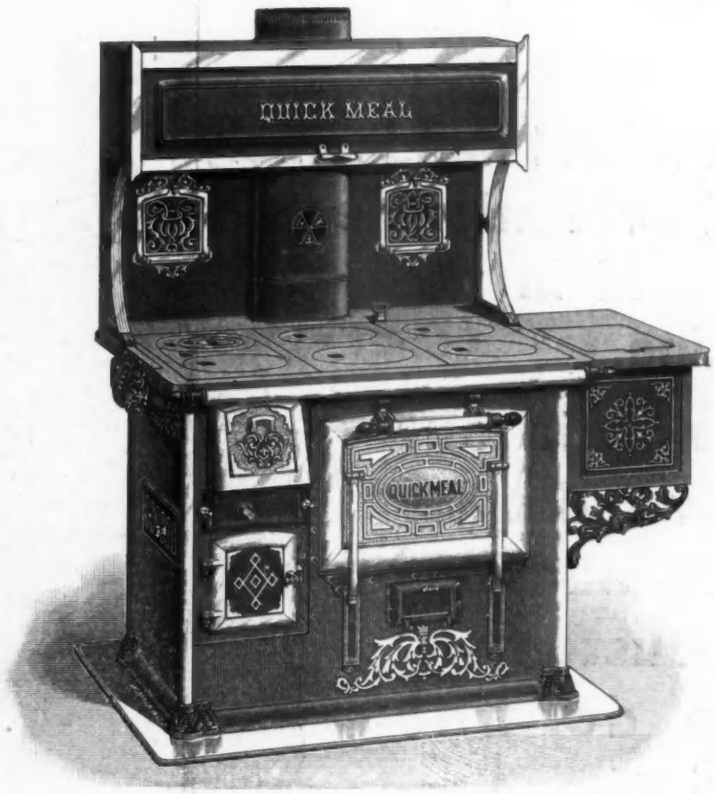
The Boynton Furnace Co.,

New York and Chicago.

QUICK MEAL

Polished Steel Ranges.

THE RANGE THAT LEADS



Quick Meal Polished Steel Ranges

Are made with either **Right or Left-Hand Reservoir, with or without Pouch Feed.** The outside sections of their Top Plates are **steel.** Their Oven Doors, Corner Tubes and Base are of **steel plate,** all stamped out and formed up in shapes which make the **body strong** and **practically indestructible.**

"Quick Meal" Polished Steel Ranges have large Feed Doors which permit the use of wood to advantage, removable duplex grates, and the **heaviest triple walls** found in any Steel Range.

RINGEN STOVE Co. SAINT LOUIS

ESTABLISHED 1847.

Golden N

A Twentieth Centu
With Extra High Ar

STOVES RANGES NOVELTY FURNACES TRADE MARK THE ONLY BEST

High grade and handsomely decorated Art Parlor Heaters can be found in the Novelty Line.

Better Join our Ranks now and enjoy the commendations of your customers, as those do who have sold the Novelty Stoves in the past.

This
Regal
Burne

STOVES RANGES NOVELTY FURNACES TRADE MARK THE ONLY BEST

Abram Cox Sto

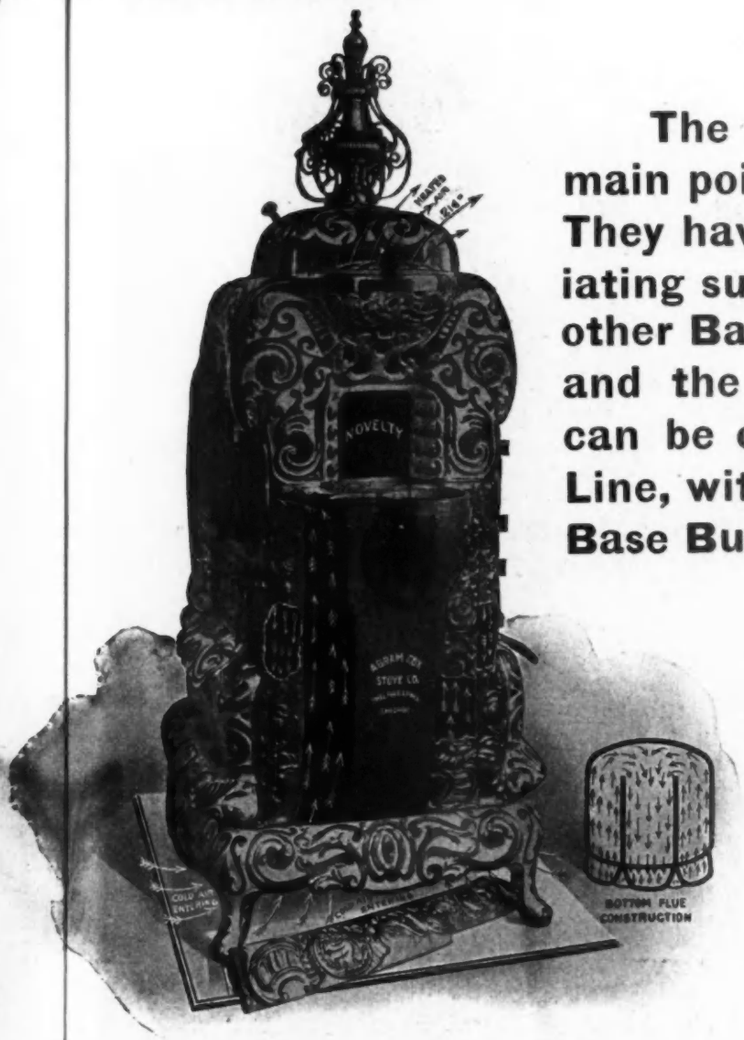
Chas. A. Rusco, M Chica

BRANCHES: Boston, Buffalo. FO

ESTABLISHED 1847.

n Novelty

Century Base Burner
gh Art Finish.



The Flue Construction is the main point in the Golden Novelty. They have fully one-third more radiating surface as compared with any other Base Burner of the same size, and the greatest amount of heat can be obtained from the Novelty Line, with less fuel, than any other Base Burners made.

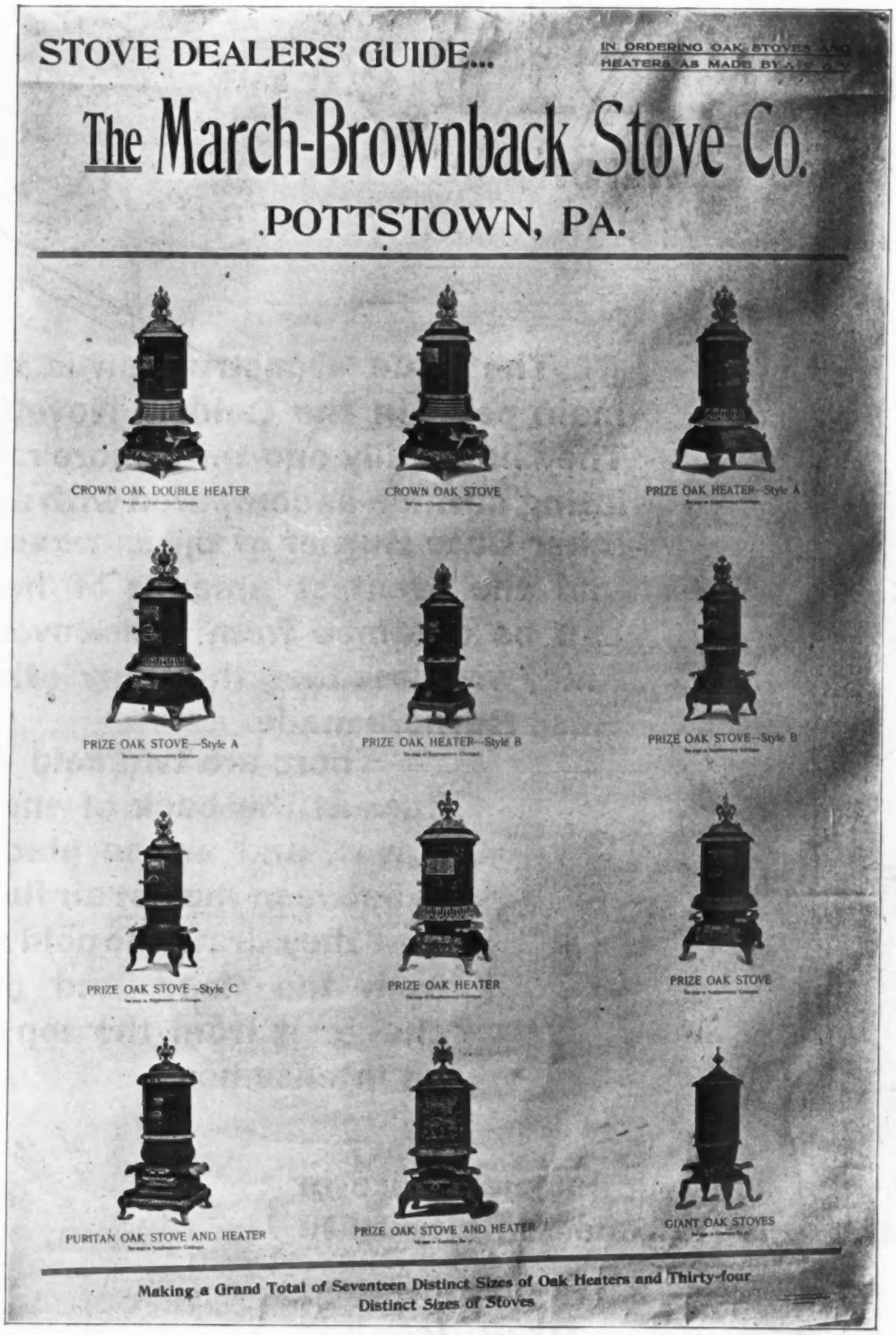
There are two cold air flues at the back of these stoves, and are so placed in between the hot air flues that they draw the cold air from the floor, and discharge it from the top at an intense heat.

This same flue construction used also in Regal Novelty and Rococo Novelty Base Burners.

Stove Co., Philadelphia, Pa.

Manager
, Chicago Branch, 15-17-19 WEST LAKE ST.

FOUNDRIES: Lansdale and Philadelphia.



We can furnish these Oaks, full nickeled, at net prices varying, for 10 inch Fire Pot, from $5.00 to $10.00—12 inch Fire Pot, $6.00 to $15.00—14 inch Fire Pot, $7.00 to $18.00—16 inch Fire Pot, $9.00 to $21.00 and 18 inch Fire Pot, $11.00 to $25.00. Write us for circulars showing these Oaks in greater detail.

Sunshine Oak

A FULL LINE.

SIZES—14 IN. TO 22 IN.

High-Class and First in its Class.

Just the Thing for School House Heating.

Our Descriptive Circular and Price List will Interest You.

Reading Stove Works.

ORR, PAINTER & CO.

CHICAGO BRANCH,
ROSS & KONTNY,
153-159 So. Jefferson St.

MAIN OFFICE AND FOUNDRIES,
READING, PA.

BRANCHES:
Philadelphia, 64-66 N. 2nd St.
Boston, 86-90 Canal St.
Buffalo, 411 William St.

MADE AT

Sunshine Stove Shop.

OAK A

OAK ANDES DIRECT DRAFT.

unquestionably the most practical and at
to the trade in the form of an Oak Stove.

Like all the Andes Stoves and Ranges,
and in the most thorough manner, and is c
factory.

For 1901.

This premier Oak construction is made with and without oven in top.

Double Register in Ash Pan Door, Operated by One Handle.

Boiler hole in bottom of oven.

Triangular Grate.

Perforated Mica.

New Design.

Perfect Fitting.

Heavy Castings.

OAK ANDES REVERT

Phillips & Clark

Cook & Van Evera Co., 38

ANDES

al and attractive construction ever presented
k Stove.
d Ranges, it is made of the very best material,
and is carefully inspected before leaving our

OAK ANDES DOUBLE HEATER.

NDES REVERTIBLE FLUE.

The Leader.

For Hard Coal. For Soft Coal. For Wood.

The variation in styles in which we furnish this stove enables the dealer to meet all competition in quality or price with but the single line of Oaks made under one name.

Its merits are fully understood and highly appreciated by the trade everywhere and nothing can be done to improve it in external appearance.

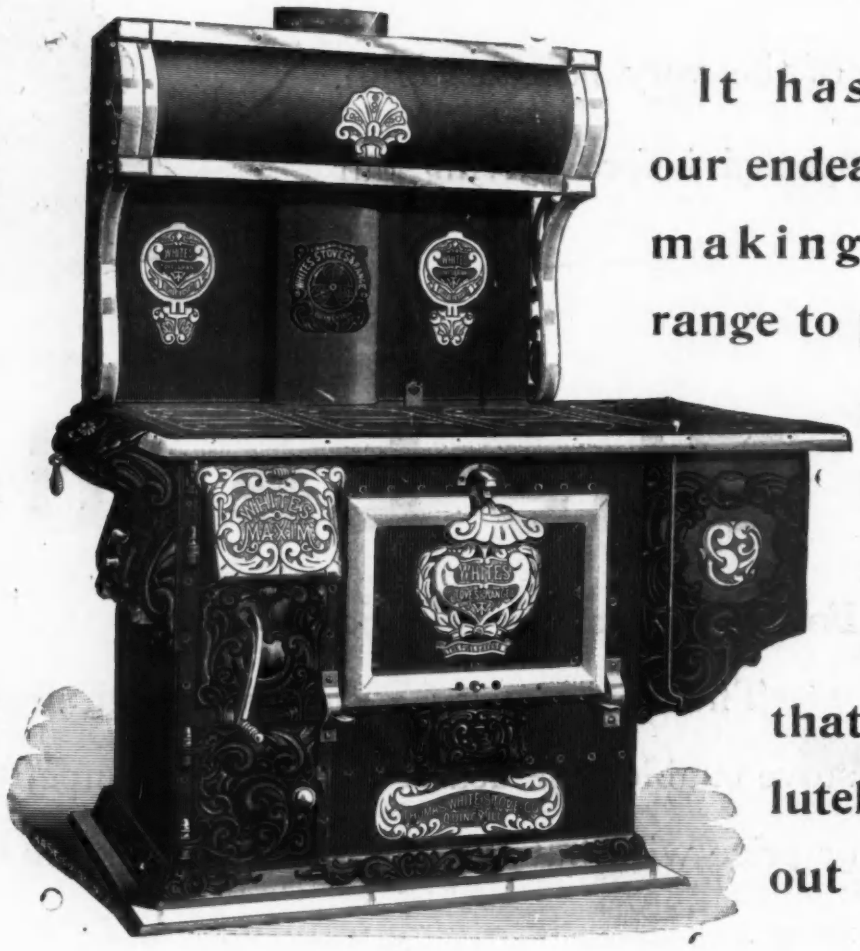
rk Stove Co., Geneva, N. Y.

., 38=40 Lake St., Chicago.

White's Maxim

The Best Steel Range in the World

We stake our reputation as steel range builders on the economy of fuel, quick baking and durability of this range.



It has been our endeavor in making this range to present the trade a steel range that is absolutely without a peer.

WRITE FOR CATALOGUE.

Thomas White Stove Co.

Quincy, Ill.

STOP!

If You're Looking for a Steel Range

combining all of the qualities which go to make an article of that kind desirable,—

High grade materials and workmanship,
Correct Construction,
Operation Guaranteed,
Modern Design,
Latest Improvements,
LOW PRICE,

in short the qualities which make a popular, quick-selling profitable and satisfactory range,—

STOP LOOKING

for you have it in the

New "D" Series Triumph Eclipse

Oven Sizes, 14x18 (4 hole) 16x18, 18x18, 20x18.

Write for Special Circular, with full description, prices and discounts.

The Eclipse Stove Co.

MANSFIELD, OHIO.

Showing with New Cast Encased Reservoir, which is one of the main points of improvement in this line, and is attachable to all of the four sizes of the New "D" Series.

Van's

Pat. Improved Wrought Steel Portable

Range.

For HOTELS, RESTAURANTS, PUBLIC INSTITUTIONS, BOARDING HOUSES and PRIVATE FAMILIES.

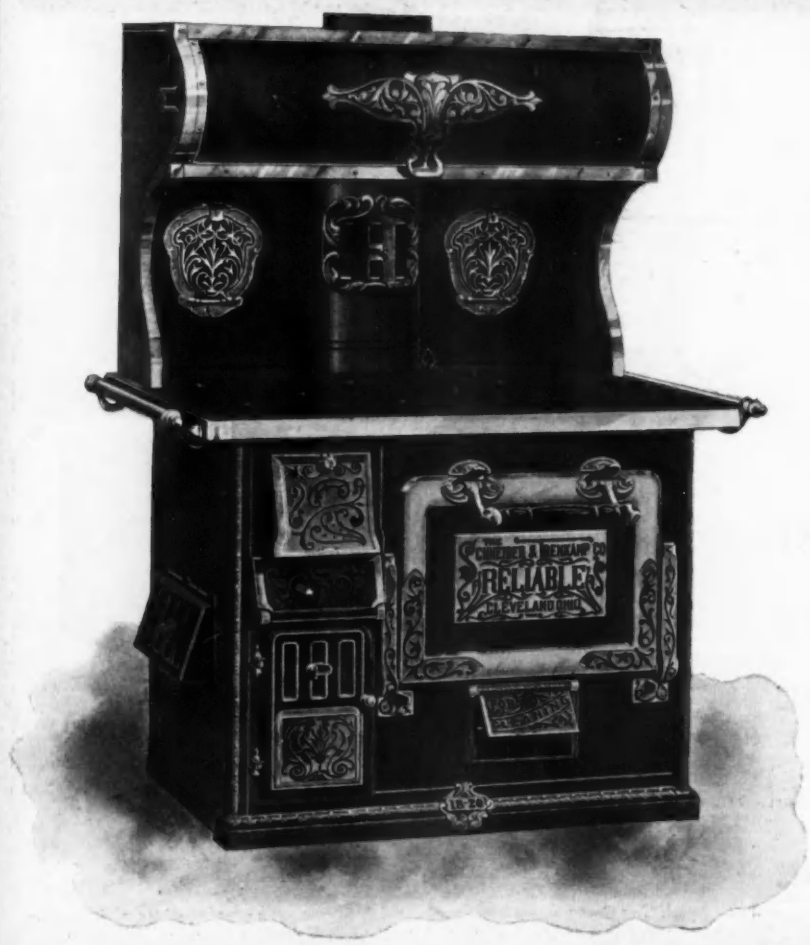
All kinds of Hotel Implements for Culinary Purposes.

Manufactured and For Sale by

The John Van Range Co.,

419 Elm and 410, 412, 414 & 416 Home Streets,

CINCINNATI, OHIO.



Why

don't you, Mr. Dealer, handle a line of steel ranges which have proven themselves to be great money makers? Such a line is found in the

Reliable Steel Ranges.

These ranges are thoroughly up-to-date. They are 365 days in advance of all others and possess special features which no other ranges have.

They are built on honor, built to last, and are "Reliable" in every sense of the word.

Write for catalogue.

The Schneider & Trenkamp Co.,

Cleveland.
Chicago.

Model Oak

Entirely New Line for 1901.

We use the old name, but the numbers are different.

The Round Air Tight Register is ground into its seat on the inside of the ash pit door and will remain at any degree of opening required to supply air for combustion through the opening.

The register construction is such that the **Grate Handle** can be pulled out through the register opening.

The Extension on Top of the Fire Pot extends up inside of the steel drum and is cast solid with the fire pot so it cannot twist and warp.

The Sectional Ring fits over the flange turned out on the bottom of the steel drum.

The Ash Pan fits tightly all around the edges of the ash pit.

The joints remain tight.
The price is just right.
Ask for more information.

The Portsmouth Stove & Range Co.

THE BUSIEST MAKERS OF STOVES & RANGES IN THE WORLD

Portsmouth, O.

MORLEY BROS.,
Saginaw, Mich.,
Agents for Michigan and the Northwest.

MODEL OAK.

Boomer Furnace.

Regarding

Boomer Furnaces Or Boomer Steel Ranges

We want to state in strongest terms possible that if you want the

Heaviest,
Most Durable,
Most Ec nomical

and easiest to take care of Furnace or Steel Range, buy a **BOOMER.**

Boomer Steel Range.

Neither time nor money is spared to make them the best. Buy Boomers and save your coal bills. We invite investigation.

Hess, Snyder & Co.,

Manufacturers, MASSILLON, O.

Border Copyright '98.

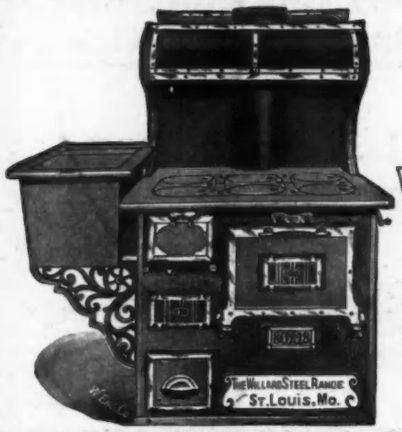
M TRADE MARK

OORE'S AIR-TIGHT HEATER

was the first,—the Original. The brains that evolved it, will keep it—*first.*

Wide-awake Hardware men are invited to write for particulars.

JOLIET STOVE WORKS, Joliet, Illinois.



NO EXTRA

charge is made to purchasers of our ranges for the name or past reputation. These goods sell on their merits, and the dealer who secures an agency for the

WILLARD STEEL RANGE

has a range that he can sell at a price that places it within the reach of all classes.

WM. G. WILLARD, MFR.,

619-621 N. FOURTH ST. ST. LOUIS, MO.

Our Steel Ranges and Stoves

Are made under our personal supervision. The management attends to each detail in its several branches.

We employ in the making of our goods the

Best Material
Best Mechanics
Best Supervision

That money can procure.

Detroit Steel Range Co.

Factory and Show Room:

13-45 Widman Place,
DETROIT, MICH.

Finest in the World.

Try a Case from Your Jobber

Large 10-oz. Can with Brush.
Packed One Dozen in Case.

Price,
$1.50 Per Dozen.

NICKEL PLATE STOVE POLISH COMPANY,

Manufacturers **CHICAGO.**

JEWEL STOVES AND RANGES..

JEWEL STOVES AND RANGES
DETROIT STOVE WORKS
LARGEST STOVE PLANT IN THE WORLD

A Complete, Well Advertised Line;
Low Prices and Good Workmanship.

Please Write for Catalogue.

DETROIT STOVE WORKS.

Detroit - Chicago.

M TRADE MARK

OORE'S STOVES AND RANGES

are *original* types. Each contains some distinctly advantageous and up-to-date feature, which makes it *THE EASY LINE TO SELL.*

JOLIET STOVE WORKS, Joliet, Illinois.

Monarch Cinderella

For Hard Coal.

In the Monarch Cinderella will be found one of the most perfect, high grade, medium priced, base burning, double heaters, offered to the trade.

Every modern and desirable improvement is embodied in its construction. We believe the careful buyer will acknowledge that there is not a better stove in its class.

Every point has been studied to make it the best; and for ingenious, effective simplicity in construction, it stands without a peer.

Best Workmanship. Best Materials.
Silver Nickel.

We would be pleased to send our catalogue.

Pittsburg Stove and Range Co.

Pittsburg, Pa.

Western Sales Agent, **W. D. Sager, 38 and 40 Michigan St., Chicago, Ill.**

ENLIST

YOUR NAME ON OUR ROLL OF CUSTOMERS AND

Reap A Harvest

Such as is Sure to Come to Dealers who Handle the Celebrated

MUELLER

Furnaces AND Boilers

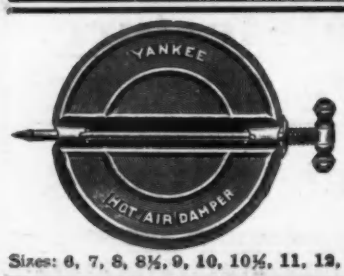
WRITE FOR 1901 CATALOGUE AND PRICES.
GET OUR SPECIAL REGISTER OFFER.
ESTABLISHED 1857.

L. J. Mueller Furnace Co., 191 Reed Street. Milwaukee, Wis.

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogs.

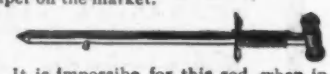
MILWAUKEE, WIS.



The YANKEE Hot Air DAMPER (Improved) All Steel.

Above All, Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest working and neatest damper on the market.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ½-inch cold-rolled steel and slips into damper very smoothly. **Sample sent to any dealer without charge.**



It is impossibe for this rod, when in position, to move either way.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., **Boston, Mass.**

NEW YORK: A. L. Canfield, 248-286 Pearl St. CHICAGO: Excelsior Steel Furnace Co.

Sizes: 6, 7, 8, 8½, 9, 10, 10½, 11, 12, 12½, 14, and 15.

Emperor Furnaces

For Wood

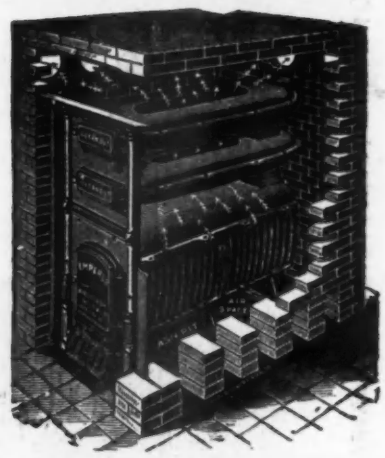
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros. Co.

Neenah, Wis.



Wisconsin Furnaces

are dependable. They have all the up-to-date improvements and the prices are right.

Let us quote you on a salable line.

Phipps Furnace Co.

135 ONEIDA ST., MILWAUKEE, WIS.

DON'T READ THIS

Unless you are interested in down-to-the-minute advertising. Have had over 15 years' practical advertising experience with some of Chicago's most successful Manufacturers, Jobbers and Retailers. Am at present engaged with a very large advertiser, but have time to spare and will do a limited amount of work for any one who desires first-class ADVERTISING SERVICE at very reasonable rates. Write for further Particulars.

FRANK. E. RUBOVITS,
233 Fifth Avenue, - - Chicago, Ill.

EDWARD BAUMAN, LIBERTYVILLE, ILL., WRITES: "Discontinue my advertisement in THE AMERICAN ARTISAN, for I have so many letters that it keeps me busy to answer them all."

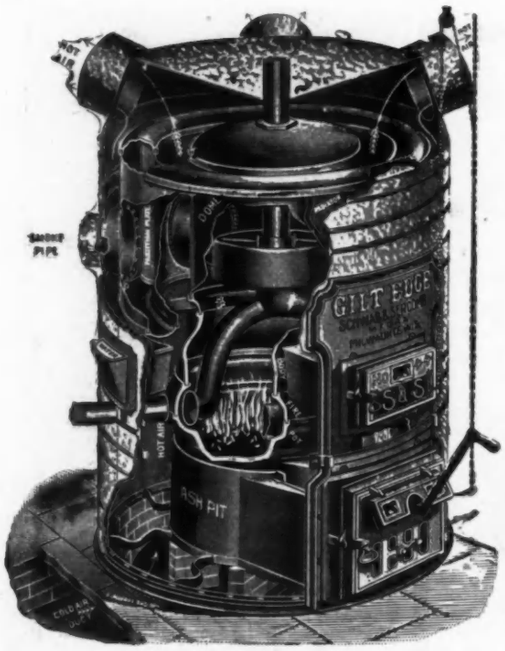
STAR STOVES AND RANGES
ENTERPRISE STOVE CO. VINCENNES, IND.
GUARANTEED

CATALOGUE SHOWING

Gas Ranges
Steel Ranges
Cast Ranges
Steel Cooks
Cast Cooks
Cast and Steel Heaters
Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.

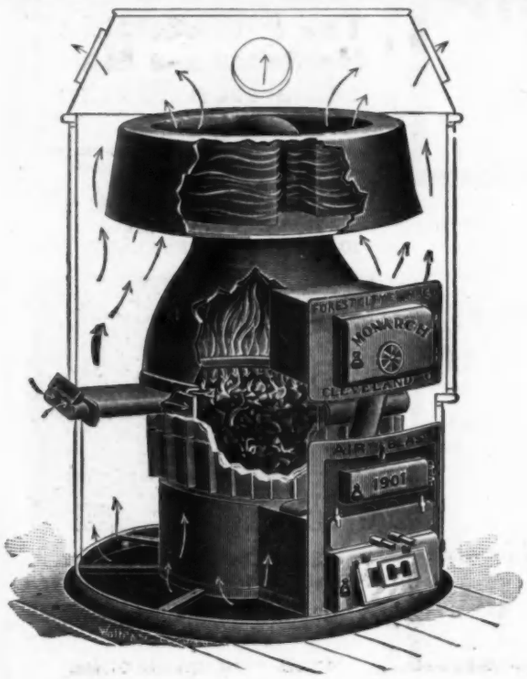


Utilized radiating surface, **that is economy.** Sectional fire pots from 1 in. to 2 in. thick and other parts in proportion, **that is durability.** Positive gas-tight joints, **that is necessary to health.** These, with all other improvements **for ease of management,** are combined in the Gilt Edge Furnaces. They are made for all kinds of fuel, and are the very best. Write for catalogue and prices to

R. J. Schwab & Sons Co., Mfgrs.,

E. E. DUNNING,
Manager Furnace Department.

Milwaukee, Wis.

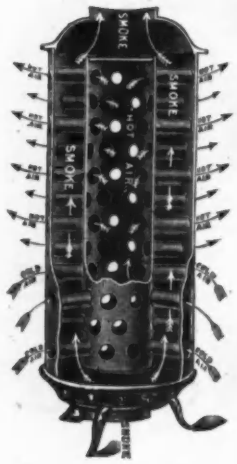


We Depend

on merit and price to get trade and hold it. If our **Monarch Furnace** is not as represented send it back to us at our expense. This furnace is very moderate in price although not cheap in quality.

Forest City Foundry & Mfg. Co.

Cleveland, Ohio.



COUNT THE TUBES

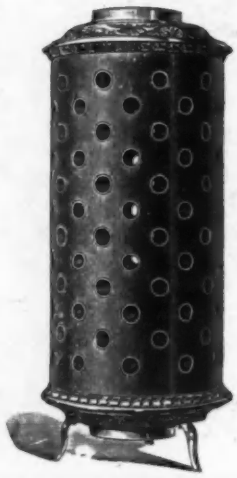
IN THE

Rochester Radiator

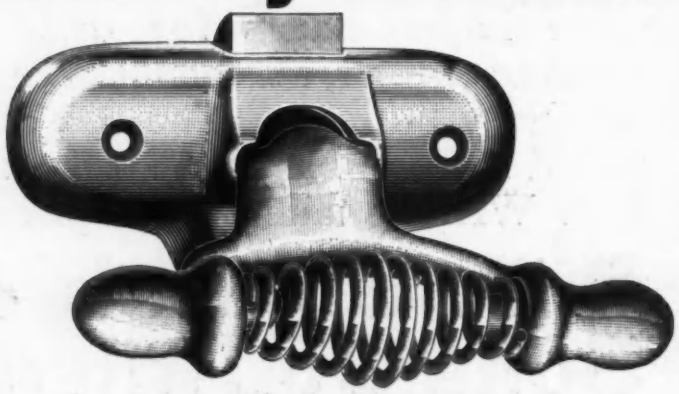
and you will comprehend the great radiating surface directly over the hot current where one square inch is better than six at the side.

Rochester Radiator Co.,

120 Furnace St., Rochester, N. Y.



No. 7. **Range Gravity Handle.**



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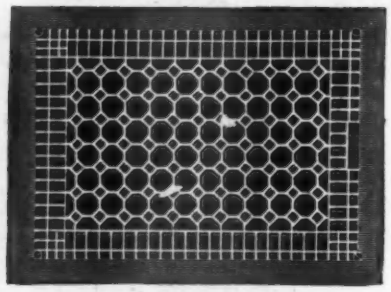

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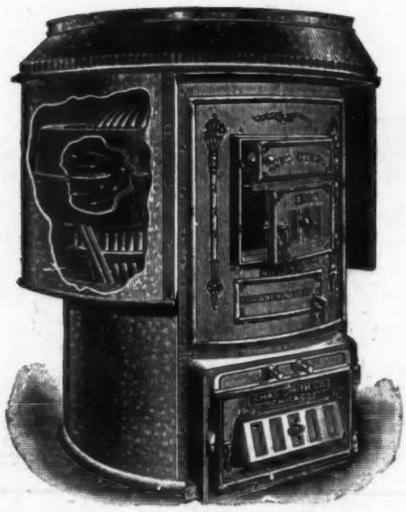

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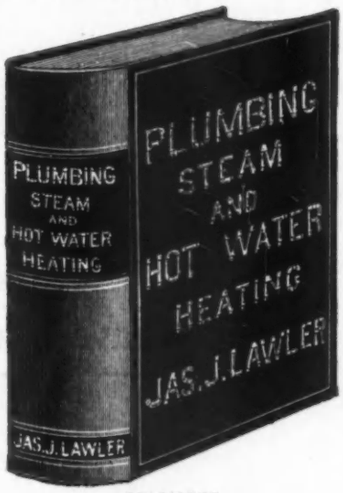

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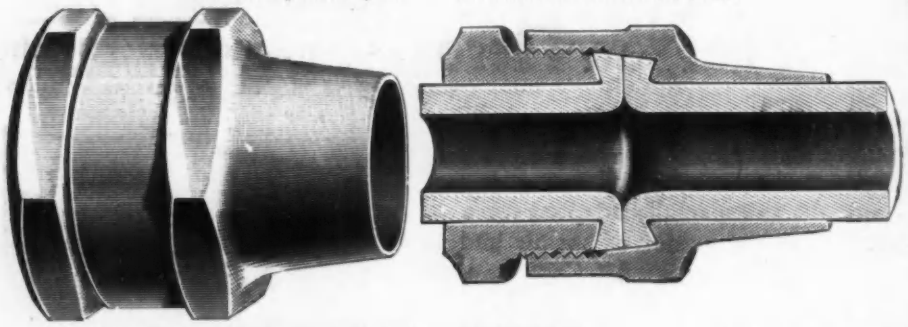

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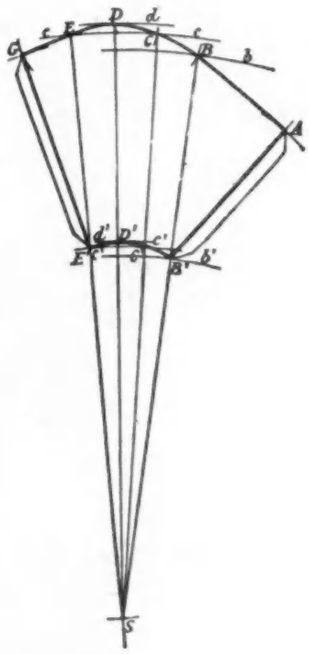
208 THE TINSMITHS' PATTERN MANUAL.

or S′ *c* (which is equal to S E) and S′ B successively as radii describe arcs cutting S′ *d* in *e* and *f*. Draw *e* C, *f* F perpendicular to X X and cutting it in C and F; also join C S, F S, cutting O″ D′ in C′ and F′.

Next draw S D (Fig. 79) equal to S D (Fig. 78), and with S as centre and S C, S F (Fig. 78) successively as radii

Fig. 79.



describe arcs *c* and *b*. With D as centre and radius equal to *d* E (Fig. 78) describe arcs cutting arc *c c* in E and C. With C as centre and radius *c* B (Fig. 78) describe an arc

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ESTABLISHED 1880

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69 DEARBORN STREET, CHICAGO, ILL.

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CHICAGO, JULY 20 1901.

THE Connecticut legislature is camping on the trail of itinerant venders with great vigor. Under a new statute in the Nutmeg state an itinerant vendor cannot expose any article for sale without first securing both a state and a local license. He must first deposit $500 with the state treasurer, and then pay $100 more for one year's state license; but before he can do a penny's worth of business in any community he must secure a supplementary license from the local authorities, the cost of which varies. Naturally, these peripatetics object, and they will test the constitutionality of the law in the courts. Meantime, the officers and directors of the Connecticut State Business Men's Association, which held a meeting in Hartford recently, report that the operation of the law so far has been "extremely gratifying to the merchants of the state."

Indeed an analysis of the general export figures of manufactures for the 11 months now available shows in most cases an increase over 1900, and that the decrease in confined to a few articles and is due, in some cases at least, to a fall in price rather than a reduction in quantity. In illuminating oils, for instance, the export figures for the 11 months ending with May, 1901, show a decrease of four and a half million dollars in value, but an increase of nearly 50 million gallons, the accurate figures being: for 11 months ending with May, 1900, gallons, 663,554,528; value, $51,753,797; and for the 11 months of 1901, gallons, 711,842,276; value, $47,228,-483. Two other great articles of our exports of manufactures show a reduction in 1901 as compared with 1900, viz., copper and cotton manufactures, and these indeed, form the chief reduction in the grand totals for the year 1901 as compared with 1900. In the latter, cotton manufactures, the reduction is due entirely to temporary conditions in China. The total exports of cotton manufactures in the 11 months ending with May, 1901, are $17,275,299, against $22,080,583 in the corresponding months of last year, a reduction of $4,805,284.

THE action of the Porto Ricans in promptly accepting that feature of the Porto Rican act which authorizes free trade between the island and the United States is likely to give them great advantage over their sister islands of the West Indies. At least this is a reasonable conclusion from an examination of some figures just made public by the Treasury Bureau of Statistics, regarding the prosperity which Hawaii enjoyed after the reciprocity treaty which admitted the sugar of those islands into the United States free of duty. These figures show that the sugar production of the Hawaiian Islands has increased over 2,000 per cent under the free admission of their sugar to the markets of the United States, while the other cane sugar producing islands and countries have, during that time, suffered great depression, and in many cases heavy losses. It was in 1876 that the reciprocity treaty was made between the United States and the Hawaiian Islands. Prior to that date the average production of sugar in the islands was but about 25,000,000 pounds per annum. In five years the production had trebled, in 15 years it was 10 times as much, and in 20 years, 20 times as much as before the treaty. Within less than 10 years after the ratification of the treaty more than $20,000,000 of American capital had been invested in the islands, and the total value of the sugar production of the islands since the treaty is $250,000,000.

THE resignation of Consul-General J. G. Stowe from the position he has so creditably filled at Cape Town emphasizes a weak point in the consular service of the United States that has long been apparent to those who have studied the service in detail. Colonel Stowe very frankly says that he is compelled to resign his position because he cannot live in Cape Town on the meager salary attached to the office. The salary of the Consul-General at Cape Town is $3,000 per annum, a sum that is obviously inadequate to permit a representative of the United States Government to maintain himself in that office in a manner befitting the importance of the position and the dignity of the nation he represents. There is not even an allowance for travel, and the appointee to this or any other consular position is obliged to defray the expense of reaching his place out of his own funds. This item in the case of Cape Town and many other distant points, represents a very large portion of the first year's salary.

The inadequacy of compensation is one of the greatest features of weakness in the consular system of the United States. The inducements are not sufficient to attract the class of men best fitted to fill such positions, and it often happens that the only men who are available for important offices are those who need even the meager salaries but lack even the most essential qualifications for the positions. There are many consular offices that are filled by men who are able to take them solely because they have private incomes with which to supplement the small salaries received from the government.

News Siftings.

The Prizer-Painter Stove & Heater Co., Reading, Pa., have increased their capital stock from $200,000 to $350,000.

S. R. Dawson, of Des Moines, Ia., who is said to possess the secret of making Damascus steel, has been released from the Des Moines jail, where he was serving a sentence of ten years for killing his son-in-law.

David U. Cory, son of Uzal Cory, of Uzal Cory & Co., the well-known New York stove men, died suddenly at Englewood, N. J., on July 13th. The funeral services were held Tuesday, July 16, at the residence of his sister, Mrs. Henry A. Lyman, Englewood, N. J.

The S. Obermayer Foundry Supply Co., Cincinnati, O., have secured a number of very nice contracts recently. They will equip the new plant of the Etna Smelting & Refining Co., Cincinnati, O., and will also fill an extensive order for the United States government at Seattle, Wash.

Ayling Bros., 14 Haddon avenue, Chicago, are manufacturers of the new A B dealers' stove polish. This is made dry and can be thinned as is wished. This is a very cheap bright and easy polish to use. It keeps in any climate and is put up in patented 5-pound boxes. It mixes quicker than paste.

J. M. Litchfield, New York City, agent for the Mt. Penn. Stove Works, with headquarters at 105 Beekman St., sends us a pretty slate, for pocket use in taking notes, etc. This slate will prove very handy for memoranda, and dealers will find it a boon provided they do not put too many bad accounts "on the slate."

The Buckwalter Stove Co., Royersford, Pa., send us a circular describing their Fairy Oak, for hard or soft coal. This Oak has heavy cylinder and body made of heavy polished steel. It has a neat square base and a large ash pit fitted with a capacious ash pan. It is made with a shaking and dumping grate. The swing cover, top band, fender, screen, foot rails and skirt base are nickel plated on a copper electro-plated base.

The Mt. Penn Stove Works, Reading, Pa., send us a circular describing their Penn Oak, a single or double heater embodying the latest and most improved ornamentation. This Oak has two styles of grate and wood burning plate, wide and deep ash pan, gas burning ring, cast iron or brick-lined cylinder, solid or mica feed door, and cast iron body lining if desired. It is made with or without magazine and has polished steel body and heavy steel drum.

The Gobeille Pattern Co., Cleveland, O., send out the following spicy postal to stove manufacturers: "The consolidation of the stove plants of this country is now apparently all but assured. The commission will undoubtedly make a 'big kick' on pattern valuations; but, if your line is freshened up by, say $1,000 worth of our new designs, it will take the curse off of a lot of your other stuff—vintage of '89, etc. Bring your goods up-to-date! Put in a new Oak! Get your ranges redressed! Build a hot-blast! And you will get twice as much in the total as you pay us."

The Chicago Stove Works, Blue Island Ave. and 22d St., Chicago, send us a batch of circulars showing a variety of 1901 Gold Coins. The "Ideal" Gold Coin ventiduct base burner has heavy solid fire pot, duplex grate and large ventiduct flues. The "Prize" Gold Coin Oak has beautiful nickel trimmings, heavy "boiler steel" body, draw center grate and large ash pit with bailed ash pan. The Star Gold Coin Hot Blast Oak has extra heavy "boiler steel" body, draw center grate, bailed ash pan and handsome nickel trimmings.

The Phillips & Clark Stove Co., Geneva, N. Y., have made their Oak Andes better than ever for 1901. This popular Oak construction, which gives the dealer a variation in styles which enables him to meet all competition in quality or price with but the single line of Oaks, is made with and without oven in top, boiler door in bottom of oven, triangular grate, heavy castings, perforated mica, and double register in ash pan door, operated by one handle. The Victor Andes is a four-hole range with 18x18 and 20x20 oven, and 8 and 9 inch tops. It is a first-class high grade range of chaste design and has removable grate, perfect fire box, large ash pan, swing hearth, large broiler door opening flush and thermometer in over door if desired.

The Mica Insulator Co., 218 Water St., New York, send us an interesting pamphlet showing the employment of Micanite in connection with the high-potential transmission line spanning the Carquinez straits. The designing of the strain insulators for this line, extending 4,427 feet, presented considerable difficulty, which was solved by the adoption of micanite, which combines great mechanical with dialectric strength. This company manufacture a complete line of micanite specialties for high grade insulation. Eugene Munsell is president, Franklin Brooks is vice president and Lewis W. Kingsley is treasurer. They would be pleased to send the trade an illustrated catalogue on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

March Brownback & Co., Pottstown, Pa., have brought out a new Oak styled the Regal Oak, which is both a single and a double heater. It embodies a new and original feature in Oak construction in the shape of a concealed fire pot. It is made in a new and original design. The single heater is made in four sizes, 10 to 16 inch fire pot, and the double heater in two sizes, 14 to 16 inch fire pot. This firm make the largest and most original line of Oak stoves. They make 17 distinct sizes of Oak heaters and 34 distinct sizes of stoves. Their Oaks include the Crown Oak double heater, Crown Oak stove, Prize Oak heater, style A; Prize Oak stove, style A; Prize Oak heater, style B; Prize Oak stove, style B; Prize Oak stove, style C; Prize Oak heater, Prize Oak stove, Puritan Oak stove and heater, Prize Oak stove and heater and Giant Oak. Their Prize Oak stoves are absolutely air tight. They have beautiful ornamentation and are designed for hard or soft coal or wood.

The Odin Stove Mfg. Co., Erie, Pa., send us a circular showing their Tri-Odin three and four-way burners. The Tri-Odin is made with either three or four separate compartments. Each compartment being oper-

ated by a special stop cock, key and mixer. On the three-way there are special burners for each lid, and one for the oven; while on the four-way there are the same number of burners for the top, one for the oven and one for the water front. The body of the burner is constructed in one piece, and the top or lid burners are of the same construction. Each of the lid burners are fitted with raised standards, which will allow flat irons to be paced thereon without interfering with the flames. The burner is fitted with plugs in either end, so that the burner may be used either right or left handed. This is a great convenience, and saves the dealer carrying two different styles of burners in stock, a point which is already appreciated by the trade. Handsome nickeled air mixers are used in connection with the solid stop cocks. The supply pipe is also nicely nickeled, and aids greatly in the general good appearance of the burner.

The Reading Stove Works, Reading, Pa., with Chicago office at 153-159 S. Jefferson St., send us a circular describing their Daisy Sunshine heater. This heater has sectional cast or brick fire pot reaching to the lower rim of the fire door, thus protecting the casing while not preventing the proper radiation of heat. It has anti-clinker center-discharge grate. It has tightly-fitting base door and shaker door, the latter concealing the grate shank and further supplementing the air-tight principle upon which the stove is built. The solid cast front has capacious fire door, the latter being fitted with illuminating section and check-draft slide. It has well-fitted register plate in base door, effectually shutting off, when necessary, all draft from the fire. The nickeled parts include swing top, top ring, lower body ring or apron, pilasters extending entire length of body, name plate and register plate on base door.

In the Daisy Sunshine double heater the heat body rests upon a slotted ring placed midway between top and bottom of lower section of fire pot, and extends around the surface of the stove and attaches to the nickeled pilasters. An air space of one inch between the heat body and inner casing in thus provided, into which cold air is drawn through openings in the lower heater ring, and being heated in the ascent is gathered into a heat chamber at top of stove, and thence passes into pipe leading to the upper room. Two registers are placed in the upper part of the heat body, through which the heated air may be drawn off into room below, when not needed above.

One of these circulars will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

WHITE'S STOVE AND RANGES.

The Thomas White Stove Co., Quincy, Ill., send us their 39th annual catalogue of White's stoves and ranges. The place of honor in this volume is accorded White's Maxim steel range. This range has pouch feed for coal, end feed for wood or coal, with both front swing and side swing, duplex grate, that can be removed through the grate door, front poke door with slide damper, cast back flue, planished steel body, asbestos and steel lined, spring balanced oven door, sheet iron shield below steel bottom to equalize heat in the oven, full cast reservoir attachment with cast shield across the back to prevent rust, white enameled reservoir, base skirting, making a handsome finish, full nickel trimming, with nickeled steel bands on edge of top and on high shelf and high closet.

White's Rival steel cook has body of polished steel, revolving and dump grate, bottom oven plate securely braced, spring balanced oven door, lined with steel and asbestos, handsome base, white enameled reservoir, pouch feed, pull-out hearth slide, nickeled coffee pot stand, towel rod and oven door panel, asbestos lined top oven plate overlaid with open cast shield and asbestos on bottom protected by outside shield.

White's Victor square oven coal ranges and cooks have smooth clean castings, large deep and full-sized square ovens, heavy single fire back, warranted for five years, flush top on reservoirs, white enameled reservoir, tea shelf on all ranges, high shelf or high closet to fit all ranges, back shelf on square stoves and ranges, aluminized oven doors, cemented top oven plate, fancy base, ash pan, pull-out hearth-slide, nickeled outside oven shelf, nickeled front panel and door panels, nickeled coffee pot stands, nickeled oven door handles, nickel towel rod and oven door pedal, pouch or door feed, as preferred.

This firm's line of heaters embraces a beautiful line of cast and sheet iron Todds, box stoves and drum stoves for wood, and an extensive line of coal heaters. White's Oak, for coal, has inside fire pot, extra ring to protect drum, oscillating hot air blast tube, nickeled steel top ring, urn, urn bottom, name plate, middle ring and foot rails. White's Oak, for wood, has single fire pot, inside ring to protect drum, nickel urn, urn bottom, steel top ring, name plate, middle ring and foot rails. The front foot rail swings for the removal of ashes.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

THE BROHARD DAMPER CLIP.

A damper clip that has strong claims to recommend it to the attention of the trade is found in the Brohard damper clip, manufactured by The Brohard Co., Philadelphia. This clip is easily adjusted. It is made of malleable iron and will not break in riveting. It costs no more than an all-cast clip. In order to introduce this clip to the trade, a sample will be sent free on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

Brohard Damper Clip.

L. F. Kunz, T. D. Raubut and T. H. Wilson are the incorporators of the Security Refrigerator Co., Brooklyn, N. Y., capitalized at $20,000.

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Ex. Com., C. E. Pipp, Otsego; A. J. Scott, Marine City; J. B. Sperry, Port Huron; A. Harshaw, Delray; G. B. M. Towner, Muskegon, for one year; Jas. J. Potter, Alpena; Jno. W. Iochim, Ispheming; Robt. G. Chandler, Coldwater; John Popp, Saginaw; F. S. Carlton, Calumet, two years.

Minnesota Retail Hardware Association.
Pres., W. H. Tomlinson, LeSueur.
Vice-Pres., H. S. Cleveland, Minneapolis.
Sec., T. McCracken, Minneapolis.
Treas., G. M. Evanson, St. Peter.
Ex. Com., F. H. Hunt, Red Lake Falls; B. J. Kernkamp, St. Paul; Julius Schmidt, Wabasha; W. H. Tomlinson, LeSueur; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; Chas. F. Ladner, St. Cloud; S. R. Nelson, Owatonna; E. H. Loyhed, Faribault.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., B. F. Naylor, Marshall.
V.-P., Geo. R. Plowman, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., R. L. Hixon, Hannibal; F. A. Kannlsteiner, St. Louis; J. W. Poland, Carrollton; W. A. Wingert, Kansas City.
Advisory Board, P. E. Harney, Joplin; E. Stuelzing, Kansas City; J. M. Kenyon, Maitland; W. T. Shoop, Richmond; G. A. Pauly, St. Louis.

National Hardware Association.
Pres., John Bindley, Pittsburg.
First Vice-Pres., R. W. Shapleigh, St. Louis.
Second Vice-Pres., Brace Hayden San Francisco.
Sec-Treas., T. James Fernley, Philadelphia.
Ex. Com., W. K. Belknap, Louisville; John C. Koch, Milwaukee; R. A. Kirk, St. Paul; Samuel A. Bigelow Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham.

North Dakota Retail Hardware Dealers' Association.
Pres., H. T. Helgesen, Milton.
Vice-Pres., H. N. Joy, Hamilton.
Treas., W. H. Pinkerton, Lakota.
Sec., C. N. Barnes, Grand Forks.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; H. F. Strehlow, Casselton; I. L. Newgard, Grafton; H. B. Allen, Jamestown; H. A. Mae, Church's Ferry.

Ohio Hardware Association.
Pres., O. M. Scott, Marysville.
Vice-Pres., W. P. Bogardus, Mt. Vernon.
Cor. Sec., Geo. Gray, Coshocton.
Financial Sec., Will C. Jones, Columbus.
Treas. H. G. Woodward, Sidney.
Ex. Com., Geo. B. Meyer, Cincinnati; Geo. V. Guyton, Ada; H. F. Rahe, Cleveland; J. Rohrbacher, Akron; A. H. Strome, Warsaw; Frank Winters, Lancaster; James B. Carson, Hamilton; R. Brown, Washton Court House.

Philadelphia Retail Hardware Dealers' Association.
Pres., Frank Schmidt.
Vice-Pres., Julius M. Aff.
Sec., T. B. Hendricksen.
Treas. Edward H. Shannon.
Trustees, Wm. E. Andrews, Lewis C. Gladding and Aaron I. Sanson.

St Louis Stove Dealers' Ass'n.
Pres., F. A. Kansteiner.
First Vice-Pres., Aug. Steinmeyer.
Second Vice Pres., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Association.
Pres., J. D. Moore, Birmingham, Ala.
Vice-Pres., C. E. Speer, Ft. Smith Ark.
Second Vice-Pres., F. W. Heitmann, Fort Worth, Tex.
Sec., C. B. Carter, Knoxville, Tenn.
Ex. Com., C. H. Ireland, Greensboro, N. C.; G. W. Barnett, Montgomery, Ala.; O. B. Barker, Lynchburg, Va.; Wm. Crumley.

Texas Hardware Jobbers' Association.
Pres., F. A. Heitman, Houston.
First Vice-Pres., J. C. Bering, Houston.
Second Vice-Pres., Ed. Strauss, Waco.
Sec.-Treas., Robert Eikel, Houston.
Ex. Com., Jas. Moroney, Dallas; R. F. Bell, Weatherford; W. L. Sanford, Sherman; A. E. Goeth, Austin.

Wisconsin Retail Hardware Dealers' Association.
Pres., John Hessel, Antigo.
Vice-Pres., Otto Schlafer, Appleton.
Sec., C. A. Peck, Berlin.
Treas., George Leverenz, New Holstein.
Ex. Com., Henry Droegkamp, Milwaukee; Aurhur Heins, Tigerton E. H. Ramm, New London; J. Wilkie, Fond du Lac

W. B. Hadley, A. O. Richmeier and F. E. Page are the incorporators of the American Mop Co., Chicago, capitalized at $5,000.

Chas. D. Albert, J. Telfer and Z. C. Shaw are the incorporators of the Quick Acting Wrench Co., Chicago, capitalized at $30,000.

John E. Jones, F. J. Patterson and T. E. Ryan are the incorporators of the Waukesha Sheet Steel Co., Waukesha, Wis., capitalized at $250,000.

Olaf Olson, John W. Olson, Frank Rudd and Alfred D. White are the incorporators of the Horizontal Swing Co., Kansas City, Mo., capitalized at $50,000.

Janney, Semple, Hill & Co., Minneapolis, Minn, wholesale hardware dealers, have plans under way for materially increasing their warehouse accommodations.

Isaac Silvernail, Charles A. Silvernail and Chas. Long are the incorporators of the Eastwood Mfg. Co., Eastwood, N. Y., capitalized at $100,000, for manufacturing hardware specialties.

Frank W. Clark, John Thompson Jr., Chas. Horning, Carl Stoecker and Harvey W. Nash are the incorporators of the Nash Refrigerator & Mfg. Co., Amsterdam, N. Y., capitalized at $40,000.

The plant of the Michigan Barrel Co., Grand Rapids, Mich., manufacturers of refrigerators, baskets and barrels, was gutted by fire on the night of July 18th. The loss is estimated at $100,000, with insurance for the same amount.

W. C. Baxter, Jacksonville, Ill., who was in the hardware business for a number of years at Mason City and Elmwood, Ill., but has been out of it for a number of years, is desirous of getting into the work again, and would be glad to correspond with any dealer desirous of selling out.

C. O. Nelson, Duluth, Minn., sends us an interesting circular showing Nelson's combination tea and coffee pot. Rings on the coffee pot indicate cup measure and rings on the cylinder suspended within indicate spoon measure. The cylinder has cloth ends, which can be replaced with new ones at will.

Mrs. Elizabeth Fehr, wife of Hans Fehr, a leading Chicago hardware dealer was instantaneously killed on July 13th at her residence, 249 West North avenue. Mrs. Fehr was leaning from a third story window talking to a neighbor when she lost her balance and fell to the ground, dying instantly. Mrs. Fehr was in her 38th year and leaves a husband and three children. The sympathy of his many friends goes to her husband in this his sad hour of loss.

C. A. Chapman, 279 Exchange St., Geneva, N. Y., sends us a little circular describing the Mrs. Van Deusen cake mold. These molds are simple and easy to operate, having openings, covered with slides at the sides, through which a knife is inserted and the cake is loosened when it is to be removed, and being made solid, they cannot get out of order or leak the batter. This firm also send us a copy of The Mrs. Van Deusen superior cake recipes. These were compiled especially to be used with the Mrs. Van Deusen cake molds. Only those buying a complete set of the Mrs. Van Deusen cake molds are entitled to these recipes.

It is said the axle combine is going through, options having been secured on the following companies: Drummond Axle Co., Louisville, Ky.; Wood, Smith & Co., Chicago Heights; Jarvis Adams Co., Pittsburg; Spring & Axle Co., Allegheny; Sheldon Axle Co., Wilkesbarre; Speer Axle Co., Wheeling, W. Va.; Cleveland Axle Co., Canton, O.; Lewis Spring & Axle Co., Jackson, Mich.; Higgins Spring & Axle Co., Racine, Wis.; Connersville Axle Co., Connersville, Ind.; Conrad Axle Co., Peacock, N. H.; Willis E. Miller, New Haven, Conn.; Dalzell Axle Co., South Egremont, Mass.; F. W. Wurster & Co., Brooklyn; Tomlinson Co., Newark, N. J.; Trenton Axle Works, Trenton, N. J.; American Axle Works, Philadelphia; Thomas Insull, Philadelphia; Dauphin Axle Works, Elizabethtown, Pa.; Standard Axle Works, Millersburg, Pa.; F. Gardners' Sons, Carlisle, Pa.; Hartford Axle Works, Dunkirk, N. Y.; Scranton Axle Works, Scranton, Pa.; Hay Axle Works, Coshocton, Pa.; Hess Spring & Axle Co., Cincinnati; American Tubular Axle Co., Toledo, O.; Pontiac Axle Co., Pontiac, Mich.; Durant & North, Flint, Mich., and Lee & Porter, Dowagaic, Mich.

This new trust will be capitalized at $10,000,000.

A RETAIL ORGANIZATION EXCLUSIVELY.

To The American Artisan.

We notice an article in the Hardware Dealers' Magazine for July, written by Thos. McCracken, secretary of the Minnesota Retail Hardware Association, making a direct appeal to manufacturers for money contributions to carry on the work of the National Retail Hardware Association.

While we appreciate the motive that prompted this letter, and he also states this was written without our knowledge or consent, our position on this point was plainly stated in the June issue of the National Hardware Bulletin, a quarterly publication sent regularly to every member of all the different states affiliated with the national. It read as follows:

"It has heretofore, and will continue to be, the aim of our association to accept no money to carry on our work outside of that contributed by our regular members or those dealers in unaffiliated states who hold honorary memberships. There are many manufacturers and jobbers who would willingly contribute for the advertising this would give them and other purposes not necessary to name, but if we are to succeed we must remain independent and under no obligations to any firm with whom our interests may clash."

We are an organization of retail dealers exclusively, working for the individual and general advantage of our members, representing millions of invested capital, and ought to be self-supporting. All concede that general results must be obtained by uniting all organized states and working through one head. Admitting this, then $1.00, or even $5.00, each should not be prohibitive.

Some of the manufacturers and jobbers have been trespassing upon legitimate and what should be exclusive retail ground. Others encouraging and aiding illegitimate competition, and promulgating new departures, calculated to eliminate the retail dealer entirely. We have been trying to get a better understanding and mend matters on a friendly, mutual-interest basis between manufacturer, jobber and dealer. Our attempts have not always met with success, and an accumulation of unsettled complaints must be considered as nearing the point where the road forks.

We believe our contentions are right, and in united effort will win. These are a few of the reasons why the National Retail Hardware Dealers' Association cannot accept aid from any manufacturer or jobber.

M. L. Corey, Secretary.

Argos, Ind., July 15, 1901.

ILLINOIS ROACH TRAP.

J. H. Jones, Lock Box 33, Streator, Ill., is the manufacturer of the Illinois roach trap, shown in the accompanying cut. This trap is convenient, simple, effectual and easily cleaned. It is patented in the United States, Canada, Germany and France, and where it is used complete extermination of all cockroaches is guaranteed.

Illinois Roach Trap.

HARDWARE DAY.

The seventh annual picnic of the Chicago Retail Hardware Dealers' Association, held at Fox River Grove, Ill., July 17, 1901, was an unqualified success, the attendance being larger than ever before. Shortly after 9 P. M. hardware dealers with their wives, children, clerks, etc., and a goodly sprinkling of camp followers, began to congregate at the Northwestern depot, and at 9:30 and 10:15 two trains pulled out to this park on the borderland of the northern Illinois lake region. When the trains slowed upon the siding at the grove the excursionists alighted, and drifted off to enjoy the various diversions presented, the dancing pavilion, fishing pier and bowling alleys all having their fair share of devotees.

The cane-you-ring-a-cane-you-get man and his neighbor who doled out rank cigars to throwers at his "babies" did a good business.

The ground was not in as good condition as it was a year ago owing to the long drought. At times during the day it threatened to rain—an unfulfilled threat, however. After dinner the principal event was a ball game between a nine of retailers captained by Gutgesell and a nine of wholesalers and jobbers captained by Geo. W. Trout.

WHOLESALERS.

	AB	R	H	A	PO	E
R. M. Rusco, c	3	1	1	0	6	0
W. S. Cutler, p, 2d p and 3b b	3	2	2	6	0	0
C. J. Volrath, ss	3	2	1	1	0	0
J. Laemmar, 1st b	3	2	2	0	6	0
G. L. Laemmar, 2d b and p	3	0	1	1	3	0
W. B. Lyman, 3d b and p	3	1	1	1	0	0
O. L. Smith, rf	3	0	0	1	0	0
Geo. W. Trout, cf	2	2	0	0	0	0
O. S. Norsworthy, lf	2	0	1	0	0	0
Totals	10	9	10	15	0	

RETAILERS.

	AB	R	H	A	PO	E
Gutgesell, ss	4	1	0	1	0	0
Lau, rf	4	0	1	0	0	0
Cook, 1st b	3	0	0	0	3	0
Clark, 3rd b	3	1	0	0	0	0
Kamerling, l f	3	2	2	0	1	0
Stephan, 2nd b	3	2	1	0	2	0
Fuellgraff, p and c	3	1	0	3	1	0
Keleher, c and p	3	2	0	0	4	0
E. Stein, c f	3	0	1	0	1	0
Totals		9	5	4	12	0

	1	2	3	4	5	
Retailers	1	0	0	3	3	—9
Wholesalers	3	5	2	0	*	—10

Two base hits—J. Laemmar.

Home runs—Vollrath, J. Laemmar, Kamerling.

Struck by ball—Cutler, Kelleher.

Struck out—By Cutler, 5; by Lamar, 1; by Fuellgraff, 2.

Bases on balls—Vollrath, Rusco, Trout, Smith, Fuellgraff, Clark, Stephan, Keleher.

Sacrifice hit—Stein.

Left on base—Wholesalers, 3; Retailers, 2.

Umpire—Shroeder.

Leading Members Chicago Retail Hardware Dealers' Association.

The winning nine were all presented with razors at the close of the contest, the same being donated by the Lawton Cutlery Co., while the losers were rewarded with pocket knives, presented by Geo. W. Trout & Co.

A second ball game was played later between nines captained by Fred Ruhling and T. Engelhardt which the former won with a score of 10 to 6.

The winners of the various prizes in the coupon drawing, bowling contest, races, etc., were as follows:

MARRIED LADIES' RACE.

First prize—Græco-Roman candlestick, donated by S. Lyons—Mrs. Emelstein.

Second prize—Ornamental flour bin and sifter, donated by Geuder, Paeschke Mfg. Co—Mrs. Denny.

Third prize—No. 20 enameled tea pot, donated by Jacob J. Vollrath Mfg. Co—Mrs. Panco.

SINGLE LADIES' RACE.

First prize—Fancy cake knife, donated by Landers, Frary & Clark—Miss Schab.

Second prize—Aluminum tray and brush, donated by C. Sidney Shepard & Co—Miss Legg.

Third prize—No. 24 enamel saucepan, donated by Jacob J. Vollrath Mfg. Co.—Miss Rusco.

CHILDREN'S RACE, UNDER 12 YEARS.

First prize—Aluminum egg poacher, donated by C. Sidney Shepard & Co—Elgina Burkhardt.

Second prize—No. 30 enameled preserving kettle, donated by Jacob J. Vollrath Mfg. Co.—Edna Jeschke.

Third prize—Aluminum tray and brush, donated by C. Sidney Shepard & Co.—Anna Pophel.

MARRIED MEN'S RACE.

First prize—Water cooler, donated by C. Sidney Shepard & Co.—Mr. Schwartz.

Second prize—Pair tinner's snips, donated by J. L. Perkins & Co.—Mr. Denny.

Third prize—Nickel-plated tea kettle, donated by C. Sidney Shepard & Co.—Mr. Atkinson.

SINGLE MEN'S RACE.

First prize—Pair tinner's snips, donated by J. L. Perkins & Co.—Mr. Nolan.

Second prize—Aluminum tea pot, donated by C. Sidney Shepard & Co.—Mr. Pefflev.

Third prize—Aluminum drip pan, donated by C. Sidney Shepard & Co.—Mr. Suter.

HARDWARE DEALERS' RACE, MEMBERS ONLY.

First prize—"Hot Blast" heater, donated by Cole Mfg. Co.—Mr. McClure.

Second prize—One year's subscription to THE AMERICAN ARTISAN—J. Paul.

Third prize—One year's subscription to THE AMERICAN ARTISAN—Martin Engelhardt.

Fourth prize—One year's subscription to THE AMERICAN ARTISAN—E. H. Beiersdorf.

BOYS' RACE, UNDER 12 YEARS.

First prize—Pocket knife, donated by Geo. W. Trout & Co.—Master Beiersdorf.

Second prize—Pocket knife, donated by Geo. W. Trout & Co.—Master Luckwitz.

Third prize—Pocket knife, donated by Geo. W. Trout & Co.—Master Wallace.

TARGET SHOOTING CONTEST.

First prize—Winchester repeating rifle 500 caps, donated by Wells & Nellegar Co.—Mr. Casebee.

LADIES' GUESSING CONTEST.

First prize—Ink well, donated by Reading Hardware Co.—Mrs. A. L. Adam.

Second prize—Thermometer, donated by Reading Hardware Co.—Mrs. Gaekel.

COUPON DRAWING PRIZES.

First prize—"Hibbard" bicycle, donated by Hibbard, Spencer, Bartlett & Co.—Mrs. Rettz.

Second prize—Refrigerator, donated by Ranney Refrigerator Co.—Chas. Hadik.

Third prize—One "Hot" gas range, donated by Geo. M. Clark & Co.—Wm. Rosenberg.

Fourth prize—"Cold" ice cream freezer, donated by C. Sidney Shepard & Co.—Ticket No. 888 (unclaimed).

Fourth prize—Gold plated watch chain, donated by S. Lyons—Mr. Ernst.

Fifth prize—Aluminum chafing dish, donated by C. Sidney Shepard & Co.—Mr. Melohn.

Sixth prize—Set auger bits, donated by Forest City Auger Bit Co.—Mr. Guthaus.

BOWLING CONTEST FOR MEN, MEMBERS ONLY.

First prize—Set of four saws in case, donated by Bishop Saw Co.—Mr. Vanderbilt.

Second prize—Oil heater, donated by Barler Mfg. Co.—Mr. Guthaus.

Third prize—Hammock, donated by L. Gould & Co.—Mr. Neisen.

Fourth prize—Aluminum chafing dish, donated by C. Sidney Shepard & Co.—Geo. Engelhardt.

Fifth prize—Set plated knives and forks, donated by S. Lyons—A. L. Adams.

Sixth prize—Finely etched saw, donated by E. C. Atkins & Co.—Mr. Krislein.

Seventh prize—Finely etched saw, donated by E. C. Atkins & Co.—Martin Engelhardt.

Members Victorious Base Ball Nine.

Fifth prize—Turkish rug, donated by S. Lyons—Andrew Dixon.

LADIES' BOWLING CONTEST.

First prize—No. B 34 Reliable gas range, donated by Schneider & Trenkamp Co.—Mrs. Cook.

Second prize—Pair lace curtains, donated by S. Lyons—Agnes Fuellgraff.

Third prize—Aluminum rice boiler, donated by C. Sidney Shepard & Co.—Mrs. Jeschke.

Fourth prize—Aluminum coffee pot, donated by C. Sydney Shepard & Co.—Mrs. Somerly.

Fifth prize—Food chopper, donated by Landers, Frary & Clark—Mrs. Guthaus.

Sixth prize—No. 80 white enameled tea kettle, donated by Jacob J. Vollrath Mfg. Co.—Mrs. Geo. Engelhardt.

BOWLING CONTEST FOR MEN, OPEN GAME.

First prize—Manicure set, donated by Bullard & Gormley Co.—Mr. Dolstrom.

Second prize—50 feet garden hose reel and nozzle, donated by N. Y. Belting & Packing Co.—Mr. Gutgesel.

Third prize—3-burner gas stove, donated by Brand Stove Co.—Mr. Schmitz.

At 7 and 8 p. m. the trains bore the happy picnickers back to the city.

TWIGS.

The thanks of all present were due to the following committees, who did all in their power to make the day a pleasant one to all.

Executive committee.—Tony Engelhardt, president; W. B. Costello, treasurer; Fred Ruhling, secretary; W. T. Gormley and H. E. Gnadt.

Refreshment committee.—H. C. Peppler, J. F. Borchardt, L. E. Steinagle and F. H. Schanze.

Transportation committee.—J. L. Smith, Chairman, G. R. Lott, Levy Rosenberg and Fred Kurtz.

Entertainment committee.—F. F. Porter, O. Stebbins, W. J. Krueger, H. Stuckart, G. A. Engelhardt, Otto Hagen, C. E. Peterson and Emil Sanders.

Games committee.—Dan McLaughlin, A. L. Adam, Martin Engelhardt, Sig. Melhon, Hans Fehr, John Schubert, G. Pfeiler and C. A. Dalstrom.

The Reading Hardware Co. were distributing a lucky penny pocket piece which was in great demand as a souvenir of the occasion.

The J. D. Warren Mfg. Co., Chicago, was given some free advertising by jocose friends who placed a placard on the crude shelving surrounding the thirst-stopper depot stating "This shelving not made by J. D. Warren Mfg. Co."

There is a good deal more behind the statement that the second prize in the single men's race, of an aluminum tea pot went to J. W. Peffley than is apparent on the surface. Mr. Peffley gets his bread and butter by calling on Chicago hardware men in the interest of Jewel gas and gasolene stoves, and when the subject of the picnic came up he announced that he was going out there to win the tea pot offered as second prize in the single men's race. Other members of Geo. M. Clark & Co.'s force, of high and low degree, being unacquainted with Mr. Peffley's speed jeered at their candidate for racing honors and covert allusions to tea fell thick and fast at 72,74-76 Lake, prior to July 17th. But Peffley's time of triumph has come. He has a temporary monopoly of repartee—hinging on the subject of "tea."

Tommy Bowler, the Lawton cutlery man, gave away alarm clocks consisting of a measured wax taper. It was quite a take.

A bystander at the ball game between the wholesalers and retailers wondered why Geo. W. Trout, the captain of the wholesale contingent, took such a modest position as center fielder. It may have been modesty and then again he may have rigidly applied civil service rules in apportioning off positions.

CAMP FOLLOWERS.

"Pop" Bennett, Reading Hardware Co., Chicago.
J. H. Batchelder, George M. Clark & Co., Chicago.
T. J. Bowler, Lawton Cutlery Co., Chicago.
J. M. Collins, Cook & Van Evera Co., Chicago.
F. W. Cunningham, Manufacturers' Stove Repair Co., Chicago.
Geo. W. Cope, The Iron Age, Chicago.
W. S. Cutler, Ranney Refrigerator Co., Chicago.
Andrew Dixon, Geo. W. Trout & Co., Chicago.
C. J. Fagen, Domestic Plating Works, Chicago.
E. O. Gschwind, Landers, Frary & Clark, Chicago.
Adolph Hassman, Geo. W. Trout & Co., Chicago.
Chas. F. Johnson, T. C. Cunningham, Chicago.
S. P. Johnston, THE AMERICAN ARTISAN, Chicago.
Gus Laemmar, C. Sidney Shepard & Co., Chicago.
John Laemmar, Orr & Lockett Hardware Co., Chicago.
Hugo Langner, T. C. Cunningham, Chicago.
J. F. Lethen, C. Sidney Shepard & Co., Chicago.
W. B. Lyman, Brand Stove Co., Chicago.
W. C. Matthews, Reading Hardware Co., Chicago.
Wm. G. Miller, Mfrs.' Agent, 59 Dearborn street, Chicago.
A. C. Ohlendorf, Manufacturer's Agent, 103 Lake street, Chicago.
O. J. Ollendorff, Geo. W. Trout & Co., Chicago.
W. F. Puls, Geo. W. Trout & Co., Chicago.
J. W. Peffley, Geo. M. Clark & Co., Chicago.
Stephen M. Perrigo, E. C. Atkins & Co., Inc., Chicago.
Fred E. Rebmann, L. Gould & Co., Chicago.
H. H. Roberts, The Iron Age, Chicago.
H. J. Searles, J. L. Morris Stove Repair Co., Chicago.
J. J. Sinzich, Bishop Saw Co., Chicago.
F. H. Suter, Edwin Hunt's Sons, Chicago.
Geo. W. Trout, Geo. W. Trout & Co., Chicago.
Carl Vollrath, Vollrath Mfg. Co., Chicago.
J. D. Warren, J. D. Warren Mfg. Co., Chicago.
M. B. Widener, Cook & Van Evera Co., Chicago.

HANDSOME ADVERTISING NOVELTIES.

The Peters' Cartridge Co., Cincinnati, O., are sending out some attractive advertising matter to the trade. This includes handsome felt mats in a variety of colors, calling attention to Peters' cartridges and King's semi-smokeless powder, and also handsome wall cards, which are enlarged pasteboard representations of Peters' Ideal shell loaded with King's smokeless powder, Peters' League loaded shells and Peters' Referee loaded with King's semi-smokeless powder.

Hardware dealers will find their customers who are fond of shooting very glad to receive the very handy "Rifleman's Record and Score Book," sent out by this firm with their compliments. It is invaluable for keeping an accurate record of target shooting, a most valuable practice for those desirous of improving their shooting. This book is arranged for the targets in general use and for the different styles of shooting. The trade should certainly write this firm for some of their valuable advertising novelties. When writing them kindly add: "Saw it in THE AMERICAN ARTISAN."

BUSINESS CHANGES.

NEW FIRMS.

Aberdeen, S. D.—Aberdeen Hardware Co.
Austin, Tex.—J. S. Simpson Hardware Co.
Bankers, Mich.—James Baxter.
Beloit, Kan.—The W. T. Branch Hardware Co.
Council Grove, Kan.—Press Scott.
Crafton, Pa.—Thomas Silk.
Fairfield, Me.—Allen Totman Co.
Findlay, Ohio.—Conrad Gassman.
Greenland, Mich.—Harvey Chown.
Hatboro, Pa.—Butterworth & Fretz.
Greenwood, Miss.—Mann Hardware Co.
Louisville, Ky.—Robinson Bros. & Co.
Montrose, Colo.—E. H. Garret.
Nunda, N. Y.—Grimes & Walker.
New York, N. Y.—T. R. De Lacey Co.
Smithfield, N. C.—The Holt Hardware & Buggy Co.
Vicksburg, Miss.—The Vicksburg Hardware Co.
Washburne, N. D.—C. A. Rorig.
Wheeling, W. Va.—Thomas Morris.
Northcote, Minn.—J. H. Shaw & Co.
Vienna, S. D.—A. F. Cole.
Two Rivers, Wis.—Schmidt & Selk.
Reno, Okla.—G. W. Kienast.
Ovid, Mich.—W. B. Cox.

CHANGES.

Cameron, Tex.—John Bryant has sold his interest in the Bryant & Bond Hardware Co.

Vancouver, B. C.—The hardware dealers, Johnston & McPhael, dissolve. The firm name is now McPhael Bros.

American Falls, Idaho.—St. Clair & Hughes dissolve partnership. The business is continued by L. V. St. Clair.

Peynette, Wis.—Smith Bros. succeed W. Collins.

Crookston, Minn.—Culbertson & Allen, hardware dealers, have dissolved partnership, J. R. Allen continuing the business.

Fairmont, N. D.—James Davenport, of Olivia, Minn., succeeds R. W. Dougherty.

Indianola, Iowa.—C. M. McCoy & Sons and J. W. Pollock succeed Noyle-Browne.

Kalamazoo, Mich.—Geo. Sperry has purchased the hardware stock of Chas. Schau, on Portage street.

Cottonwood, Minn.—John Mero succeeds Kjembus & Mero.

Cloquet, Minn.—Jos. Loisel admits a partner into his hardware business.

Morris, Minn.—Pearce & McDonald, hardware dealers, have purchased J. D. Good's hardware stock. They will combine the two stores and continue business in the recently acquired store.

Jamestown, N. D.—J. W. Scott & Co. succeed Giesler & Blewett.

Vienna, S. D.—A. E. Cole succeeds J. G. Eggen.

Ackley, Iowa.—Mr. Martin has sould his interest in the hardware business of Martin & Maune to his partner, Gus Maune.

Athens, Tex.—W. M. Kidd has been succeeded by Kidd & Spencer.

Athens, Tex.—Eugene Spencer has withdrawn from the hardware firm of Miller, Carroll & Spencer.

Bell Buckle, Tenn.—Wm. Ransom is succeeded by Bomar Bros.

Bridgeton, Me.—Geo. Grisbee, a hardware dealer, has admitted a partner.

Charlottesville, Vt.—R. E. Yowell has sold his interest in the hardware firm of Adams & Co. to J. P. Carroll.

Clarksburg, Ind.—A. C. Burns is succeeded by T. Smith and John E. Russell.

Clinton, Tenn.—Groner, Gamble & Co. are succeeded by the Clinton Hardware Co.

Cooperstown, N. Y.—The firm of H. M. Hooker & Co. has dissolved, H. M. Hooker selling his interest to D. J. McGown, the junior partner. The title will remain the same.

Deadwood, S. D.—E. T. Baltzley has been succeeded by A. F. Bick.

DeQueen, Ark.—John & Brawner are succeeded by B. Johnson & Co.

East Liverpool, Ohio.—M. L. Otterman and Henry Fowler have purchased the interest of J. N. Shives in the Diamond Hardware Co.

Eldorado, Ark.—A. A. Norris Hardware Co. is succeeded by the J. H. Mellor Hardware Co.

Gilboa, N. Y.—Geo. Shaler is succeeded by Frank R. Thomas.

Guthrie, Okla.—E. A. Nehr has bought E. R. Peterson's interest in the Henricks & Peterson Hardware Co. The new title will be Henricks & Nehr.

Lunde, N. D.—Roshold Implement Co. succeeds Roshold Bros.

McComb City, Miss.—R. C. Howell is succeeded by W. J. Guy.

McEwen, Tenn.—J. E. Jones & Co. is succeeded by N. L. Thedford.

Madison Lake, Minn.—W. E. Davey succeeds Davey & Meyer.

New Cumberland, Pa.—D. Y. Lenhart has moved E. P. Conley's hardware stock to his store on Market street.

Newport, Vt.—L. A. Spaulding has purchased half interest in the hardware business with F. W. Carr.

Presque Isle, Me.—A. M. Smith and E. W. Fernald dissolve partnership. Mr. Smith will continue the business.

Revere, Mo.—L. M. Dawson has sold his hardware store to C. Lucas, retaining half interest in the implement department.

Ripley, Tenn.—C. F. Sanford succeeds Sanford & Crawford.

Roanoke, Va.—Roanoke Hardware Co. succeeds Price-Ames Co.

Rockland, Mass.—The hardware firm of Hedge & Hall dissolve. Geo. S. Hedge retires and Harry S. Torrey succeeds him.

Salem, S. D.—Ellis Bros. are succeeded by J. W. Ryan.

Vandalia, Mo.—Wm. E. Hitch has bought V. L. Beshears'

Vermillion, S. D.—Thomas Halderson has been succeeded by Halderson & Gunderson.

half interest in the hardware firm of Beshears & McCarroll.

Verona, Ill.—Hough Bros. have sold their stock, building, etc., to Geo. Smith & Bros., having purchased the implement business of Woods Bros., in Mason.

Victor, Iowa.—J. C. Gridley is succeeded by Fred Schroeder.

Wichita, Kan.—A. J. Ketchum has sold the business and stock of the Ketchum & Ketchum hardware store, at 115 East Douglas avenue, to Hadley & Outland.

STOPPAGES.

Dassell, Minn.—W. A. Lindquist.

Ulen, Minn.—I. B. Detlaff.

Oshkosh, Wis.—G. W. Kienast.

Onawa. Ia.—Chas. A. Thurston has bought his father's interest (James P. Thurston's) in the hardware firm of Thurston & Son.

Grand Rapids, Mich.—F. D. Flye and F. J. Meyer, of the Antrim Hardware Co., have retired. The business will be continued by M. J. Flannelly and S. H. Beach.

Carlinville, Ill.—The interests of Mrs. J. W. O'Brien and Mrs. E. C. Barber in the S. W. Woodward Hardware Co. have been purchased by C. T. Woodward, who now owns the controlling interest.

Horton, Kans.—A new hardware store will be opened by W. C. Parker and W. H. Miller.

Sigourney, Ia.—A half interest in the Olive hardware store has been purchased by Eugene Payton.

MISCELLANEOUS.

Kent, Iowa.—C. H. Thomas is erecting a new brick hardware store.

Dallas Center, Iowa.—Hoffincle, fire. Loss, $3,500.

New Prague, Minn.—Frank J. Maertz has added a line of general merchandise to his hardware stock.

Verdi, Minn.—J. H. Robertson is contemplating erecting a new hardware store.

Hibbing, Minn.—The W. H. Close Hardware Co. will build a warehouse.

Jordan, Minn.—C. H. Casey has completed the erection of a fine, large, new store building.

Baldwinville, Mass.—H. H. Hammond enlarges.

Bay City, Mich.—The Jennison Hardware Co. has increased its capital stock from $40,000 to $100,000.

Des Moines, Iowa.—L. H. Kurts moves his hardware business into his new store at 312 Walnut street.

Elizabeth City, N. C.—Sharber & White move into their new store on Main street.

Holland, N. Y.—W. J. Tabor enlarges.

Manchester, Va.—The B. P. Vaden Hardware Co. are erecting a brick storehouse. They will occupy it as soon as completed.

Mayville, N. Y.—Thomas Hutson is erecting a new building for his hardware business.

North Vassalboro, Me.—Geo. S. Hawes builds a storage depot for his hardware.

Paris, Tex.—H. S. Bettes Hardware Co. has increased its capital stock from $50,000 to $125,000.

Piqua, Ohio.—D. N. Burr & Co. enlarge.

Weedsport, N. Y.—Burrit Bros. are having a private office built in the rear of their hardware store.

Athens, Mich.—Hyman's, fire. Loss, $1,000; insured.

Bellows Falls, Vt.—Geo. B. Albee, fire. Loss, $1,000.

Bremmond, Tex.—Webb Hearn, fire.

Columbus, Tex.—J. E. Binkley, fire. Loss, $4,400; insurance, $3,250.

Dumont, Iowa.—H. Faltzhoff, fire. Partially insured.

Kindred, N. D.—C. J. Myher, fire. Partially insured.

Gebo, Mont.—Holland Lumber & Hardware Co., fire.

Rocky Ford, Colo.—Dawley Hardware & Furniture Co., fire.

Roscommon, Mich.—W. B. Orcutt, fire. Loss, $6,000.

Greely, Neb.—M. Murphy, fire.

Windsor, Ont.—D. L. Wingle & Son enlarge.

Toledo, Ia.—E. P. Messre & Sons, fire.

Heating and Ventilating.

The Akron Gas Valve Co., Akron, O., is a new concern, capitalized at $10,000.

Clark & Morrow are a new firm of Mt. Vernon, N. Y., steam and hot water fitters.

J. H. Plain, John Plain and A. H. Clark are the incorporators of the Aurora Steam Heating Co., Aurora, Ill., capitalized at $25,000.

George S. Hobart, Le Grant Bouker and Clarence F. Walker are the incorporators of the Automatic Heating Co., Newark, N. J., capitalized at $3,000,000.

Clarence M. Converse, Theodore B. Emery and Edwin B. Smith are the incorporators of the Chicago Heater & Supply Co., Chicago, capitalized at $25,000.

T. P. Hinds is president and N. M. Clark is treasurer of the Hinds Heater Co., Portland, Me., capitalized at $100,000, for the manufacture of heating apparatus.

John H. Munroe is president, Claus Koll is vice president, Fred B. Munroe is secretary and treasurer of the Gibson Heating Co., Muscatine, Ia., capitalized at $2,500.

Thomas Gunning, J. M. Arnold and M. J. Danin are the incorporators of the Duquesne Mfg. Co., Camden, N. J., capitalized at $150,000, for the manufacture of stoves, heaters, etc.

Proposals will be received until Sept. 3 by J. K. Taylor, supervising architect, Treasury Department, Washington, D. C., for the heating and ventilating of the new postoffice at San Francisco, Cal.

Eugene C. Bell, H. R. Armstrong, Samuel Sturtz and F. J. Smith are the incorporators of the E. C. Bell Mfg. Co., New York City, capitalized at $75,000, for the manufacture of steel clad and galvanized steel enameled bath tubs.

Carl S. Wise, John C. Nelson, Quincy J. Myers, Rufus Magee and William M. Elliott are the incorporators of the Logansport Hot Water & Heating Co., Logansport, Ind., capitalized at $25,000, for the purpose of supplying the citizens with hot water.

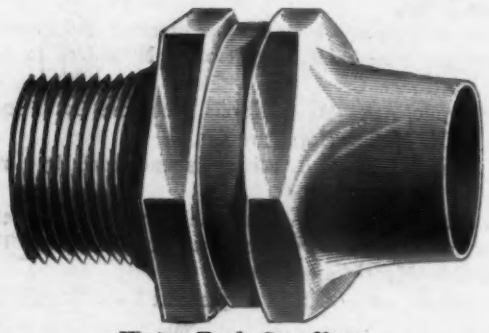
The Forest City Foundry & Mfg. Co., Cleveland, O., send us a number of attractive postals. These are printed in colors and call attention in an interesting manner to the merits of the Monarch and Imperial furnaces. Among the reasons advanced for the retail dealers handling this line is that of price. It is claimed that no other high grade furnaces sell for such low prices, and that they cost little because this firm make their real profit out of other things.

COUPLINGS AND FITTINGS.

The New Haven Novelty Machine Co., Elm and State streets, New Haven, Conn., are manufacturers of the Novelty couplings and fittings, a substitute for wiped joints in connecting lead to lead and lead to iron or copper. These fittings are for universal use. They can be used by brewers, gas companies or water companies. These fittings are also very desirable for range boiler connections. They can be used in places where the cost of getting at joints to wipe them is very considerable. These fittings will stand hot water under any pressure, and are guaranteed, when properly headed, to stand any pressure that a lead pipe will stand. They

Boiler Coupling.

are made entirely of metal and have no washers which will corrode. Any one can apply this coupling in two or three minutes. It does not decrease the diameter of



Water Back Coupling.

the hole of the pipe. When there is a stoppage in the pipe from any cause whatever the Novelty couplings can be easily and quickly disconnected and the pipe cleaned and reconnected.

MEETING A. S. H. AND V. E.

The American Society of Heating and Ventilating Engineers met at the Hotel Victoria, Chicago, July 12th and 13th. The following papers were read and discussed:

"Test of Radiators with Superheated Steam," by R. C. Carpenter.

"Heating with Hot Air Furnaces," by C. G. Folsom.

"Heating Systems in St. Louis Schools," by Alvin D. Reed.

"Quantity of Water in Hot Water Heating Systems," by W. M. Mackay.

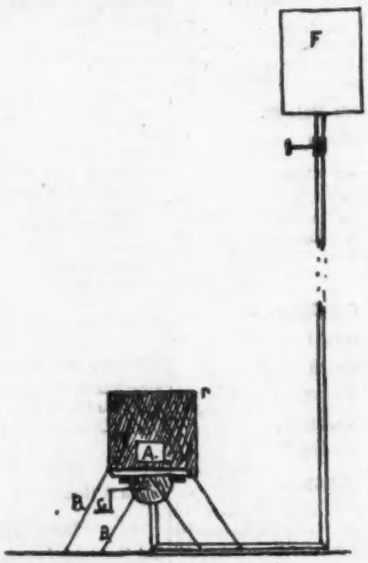
"Efficiency of Different Parts of Boiler Fire Boxes," by R. C. Carpenter.

Tinshop.

TO MAKE A CHEAP GASOLENE FIRE POT.

To The American Artisan.

I beg to submit a cheap and good way of making a gasolene fire pot. I use an old generator burner and it works as well as any I have ever seen. Following is a description of the fire pot shown in the sketch. *A* is the opening for the coppers; *BB* is the brace and copper



rest; *C* is the crank for letting forth oil or gas; *D* is the casing around the fire; *E* is the raiser-pipe; *F* is the reservoir. The latter ought to be 10 or 12 feet above the fire in order to give it force. "R. L. C."

Hastings, Neb., July 15, 1901.

IWAN'S PATENT VOLCANO REVOLVING AND VENTILATING CHIMNEY TOPS.

Iwan Bros., Streator, Ill., are manufacturers of Iwan's patent volcano revolving and ventilating chimney top. When this hood is used the chimney is fully protected from rain, sleet and snow and the current of wind cannot suck downward, but, on the contrary, when the wind passes through the sloping passage of the hood it creates an upward draft. It is claimed to be the most effective chimney top manufactured for producing a strong, regular draft at all times and under all conditions. These chimney tops are used for ventilation and down draughts for various kinds of buildings, churches, schools, court houses, residences and factories of all kinds.

Iwan's Patent Volcano Revolving and Ventilating Chimney Tops.

AMALGAMATED ASSOCIATION STRIKE.

The steel strike is still unsettled. The Ohio Board of Arbitration has offered to settle the strike, and its offer may be accepted. It is also rumored that the affair will become critical if the United States Steel Co. attempt to reopen the Dewees Wood plant at McKeesport, Pa., as they contemplate.

NOTES AND QUERIES.

ZINC SCREW CAN TOPS.

From Reader, ——, Ill.

Where can I buy zinc screw can tops?

Ans.—Ohio Lantern Co., Tiffin, O.

LIGHTNING RODS.

From Reader, ——, Ill.

Where can I buy lightning rods?

(We refer you to page 33, issue of May 18, 1901.)

COOK'S LEVELS.

From Rohrer Bros., Cochrane, Wis.

Where are Cook's levels made?

Ans.—Davis & Cook, Watertown, N. Y.

ANTI-TRUST PUMPS MADE IN CHICAGO.

From Wm. Willard, Marshalltown, Iowa.

What Chicago firm makes anti-trust pumps?

Ans.—Star Pointer Pump Co., 155 Canal St., Chicago.

MOTORS RUN WITH SPRING

From Wm. Willard, Marshalltown, Iowa.

What firm makes a small motor that is worked with a spring?

Ans.—Cavanaugh & Dailey, Randolph and Canal Sts., Chicago.

WALLACE & SONS.

From Kuhnen & Siegrist Hardware Co., Highland, Ill.

Where are Wallace & Sons, paint and wood filler manufacturers located?

(Can any of our readers answer this question?)

ITEMS.

P. A. Johnson is succeeded in the tinware business at Lyle, Minn., by Edward Blakestad.

The Muskegon Tin & Novelty Co., Muskegon, Mich., have been organized with a capital stock of $50,000, for the manufacture of tin cans, flour bins, bread trays, etc.

George Tyler, George Tyler Jr., George F. Fleming, Samuel Parsons and Lindley M. Huggins are the incorporators of the Tyler Can Co., Baltimore, Md., capitalized at $5,000, for the manufacture of tin cans.

The White Mfg. Co., Chicago, manufacturers of tinners' and plumbers' furnaces, have reorganized, with a capitalization of $100,000. Wm. A. Sloan is president, Fred A. Fischrupp is secretary and treasurer, and G. Fischrupp is general manager.

Merchant & Co., Inc., Philadelphia, with Chicago office at 46 S. Clinton St., send us a postal calling attention to their line of seamless brass tubes. These tubes are made of the best quality of raw material, finished in the most modern improved manner. Special care is given to the testing of each tube by internal hydrostatic pressure. For plumbing work all tubes are annealed in a manner to secure a temper that positively reduces the tendency to crack or split, through sudden changes of temperature, to a minimum.

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OBJECTIONS TO THE SIX O'CLOCK START IN BRITISH SHOPS.

The idea which underlies the supposed necessity in British shops of the six o'clock start is, that a long day's work is secured. But if masters were always in their shops at six, moving about among the men, they would see that this early work is, as a rule, the most unproductive in the day. Those who make a casual early visit once in a moon to their works just to wake up the men and the foremen, might as well save themselves the trouble for aught they learn thereby. They do not see the many leakages that go on, and neither are they qualified by experience to estimate the subtle difference between the men in those early hours and those who start work under better physiological conditions. In these flying visits they see only that time is "put in," and time instead of energy is the common measure of work done in the factory. Very often the writer has observed that men, after losing quarters, have got through more work in the day than others who commenced at six o'clock. The loss of time in quarter days —"knocking off corners"—is obvious; but energy losses do not show directly in the books, nor are they always apparent to those who suffer thereby.

Nor does the mischief consist alone in broken rest. Early rising carries with it exhausting conditions. Men are hungry, and slack in consequence of going out into the raw cold without food or warm drink in the stomach, and having to work thus for two hours and a half before breaking fast. Often they get wet, and stand in wet clothes and boots without the fortifying influence afforded by food at the proper time.

The darkness of winter mornings favors skulking, to which the badly lighted state of many shops is favorable. Men have to hurry to get inside the gates by time. Then opportunities are taken to lace up boots, and finish a too hasty toilet, perhaps to surreptitiously warm a cup of coffee, and to rub and warm chilled hands and limbs. Work is nearly always slack before breakfast owing to the raw environment, for well-warmed shops are as yet exceptional in Great Britain. These things are necessarily winked at; but if a foreman or manager appear, the men are alive for the time, and put on a spurt which does not last.—Joseph Horner, in "Cassier's Magazine."

SHE HAS A HUBBY NOW.

The National Laundry Journal says in its news notes that "Harold B. Hubby, junior proprietor of the Lee, Mass., steam laundry, was united in marriage, June 25, to Miss Louise Rhodemacher, of Lenox."

Trade Report.

BRADSTREET'S ON IRON AND STEEL SITUATION.

The editor of Bradstreets telegraphs us this advance report on the iron and steel situation:

Iron and steel, as a whole, are unsettled by the strike, which is, however, confined to one locality, the central west, and again directly affects only the tinplate, the sheet and the hoop mills within that territory. The usual summer shut down, which increases the number of those idle from other causes, has led to some apparent over estimates of the number on strike. The outlook is with a continuance of the strike for some weakness in the cruder forms of iron, which will, of course tend to accumulate, and, on the other hand, induce some advance in the finished products affected directly by the strike. Pittsburg jobbers have advanced tinplates $10 and sheets $13 per ton. Some good sales of pig iron are noted at the west, and some implement orders have been placed. There is a better feeling in iron at Birmingham.

WIRE NAILS.

Carload lots of wire nails are quoted at $2.45 and small lots are $2.55.

CUT NAILS.

Small lots of cut nails are quoted at $2.35.

BARB WIRE.

Painted barb wire is quoted at $2.75 in carload lots and $2.85 in smaller lots. Galvanized barb wire is quoted at $3.05 in carload lots and $3.15 in smaller lots.

WHITE LEAD IN OIL.

White lead in oil is 6½c in 500 lb. lots and 7c per lb. in lots of less than 500 lbs.

LINSEED OIL.

Linseed oil is higher than it has been for years. City raw is 82c per gallon in lots of 5 barrels or more, and 83c per gallon in lots of less than 5 barrels.

SPIRITS TURPENTINE.

Turpentine is in light demand. Southerns are 37c to 37½c and machine made barrels are 37½c to 38c per gallons.

PIG IRON.

The molders' strike in this city cannot be said as yet to have had any material effect on the market, though the waiting for definite action during the last two weeks resulted in the withdrawal of many inquiries. Most of the furnaces have sufficient business on their books to keep them busy for several months, and neither they nor the commission merchants are doing any great amount of worrying, now that the strike has been declared. July is always a quiet month, and notwithstanding all the adverse circumstances prevailing prices generally are firm. The inquiry noted last week for 1,500 tons of Southern Coke No. 4 from a Chicago pipe concern, has been increased to 2,000 tons, and the order placed. One of the local mills has also placed orders for several thousand tons of mottled and gray forge irons, the prices being, it is stated, $8.50 and $8.75, Birmingham. A number of small orders, ranging from 50 to 300 tons, have been placed.
follow:

BAR IRON.

Business continues exceptionally good, manufacturers reporting a large number of small orders for immediate shipment. One manufacturer stated that it is not at all unlikely that prices will be advanced in the near future if the present heavy demany continues. We quote 1.55c to 1.60c for iron, and 1.60c to 1.65c for steel.

SHEETS.

The prospects of an indefinite shut-down of the mills, due to the strike ordered by the Amalgamated Association, has resulted in what one seller characterized as "a tremendous amount of business being anticipated." This is particularly true with jobbers, who have been simply swamped with orders. Higher prices than quotations are asked, and these are cheerfully paid, notwithstanding the reduction which recently went into effect. Our quotations follow: No. 27 black, 3.40c to 3.50c, and galvanized 65 to 10 per cent from store and 70 per cent and 5 per cent from mill, Pittsburg.

STRUCTURAL STEEL.

Manufacturers report they are figuring on a number of large buildings throughout the country, though no big contracts were closed during the past week. Business in small lots continues very good. We quote mill shipments, car-load lots, as follows: Beams, 15 inches and under, 1.75c; 18 inches and over, 1.85c; angles, 1.75c to 1.80c; plates, 1.75c; tees, 1.80c; zees, 1.75c; small lots from store, ¼c higher; beams and channels from store, ½c per pound higher.

COPPER.

Better demand from Europe was reported while there was also a good inquiry from domestic consumers. Lake copper was quoted at 16⅞c and electrolytic at 16⅝c. Exports amounted to 350 tons; arrivals were 294 tons copper and 2,400 tons ores. John Stanton reports production for June as follows: Reporting mines, 18,901 tons; outside sources, 3,500 tons; total, 22,401 tons as against 22,392 tons in May. The English market opened easy and lower and closed quiet, after a day of small sales, with no improvement in values shown. The decline amounted to 5s per ton for spot copper and 6s 3d for futures.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	10x14	$7 75
IX	10x14	9 50
IC	12x12	7 75
IX	12x12	9 50
IC	14x20	7 75
IX	14x20	9 50
IXX	14x20	10 00
IXXX	14x20	11 00
IXXXX	14x20	12 60
IC	20x28	15 50
IX	20x28	17 25
IXX	20x28	19 00
IXXX	20x28	20 75
IXXXX	20x28	22 50

COKE PLATES.

Cokes, 180 lbs	IC	20x28	9 70
Cokes, 200 lbs	IC	20x28	10 00
Cokes, 216 lbs	IC	20x28	10 30
Cokes, 216 lbs	IX	20x28	12 25

PIG IRON.

Lake Sup. Charcoal	$17 50@$18 00
Local Coke Fdy No. 1	16 00@ 16 50
Local Coke Fdy No. 2	15 50@ 16 00
Local Coke Fdy No. 3	15 00@ 15 50
Local Scotch Fdy No. 1	16 00@ 16 50
Local Scotch Fdy No. 2	15 50@ 16 00
Local Scotch Fdy No. 3	15 00@ 15 50
Southern Coke No. 1	15 15@ 15 65
Southern Coke No. 2	14 65@ 15 15
Southern Coke No. 3	14 15@ 14 65
Southern Coke No. 4	13 90@ 14 15
Southern No. 1 Soft	15 40@ 15 55
Southern No. 2 Soft	14 90@ 15 15
Southern Silveries	15 45@ 15 50
Jackson Co. Silveries	17 00@ 17 50
Ohio Strong Softeners	16 50@ 17 00
Alabama Car Wheel	21 00@ 22 05
Malleable Bessemer	16 00@ 17 00
Coke Bessemer	17 50@ 18 50

BLACK SHEET STEEL.

¼ in. 3-16 in. Nos. 8 and 10	per lb. $3 40
No. 12	per lb. 3 45
No. 14	per lb. 3 50
No. 16 and 18	per lb. 3 55
No. 20, 22, 24, 25 and 26	per lb. 3 50
No. 27	per lb. 3 60
No. 28	per lb. 3 70

SMOOTH STEEL.

		per lb.
Wood's Smooth Steel,	15-17	$3 35
" " "	18	3 45
" " "	20	3 55
" " "	22-24	3 65
" " "	25-26	3 75
" " "	27	3 85
" " "	28	3 95

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel, "A" $10 20, "B" $9 20

GALVANIZED IRON.

Galvanized Iron ..... 70% off

SOLDER.

Commercial 20c

SHEET ZINC.

600 lb. Casks, base ..... 7¼c per lb.

COPPER.

Copper ..... base, 21c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTERS'.

Hunt's	25%
White's	12½%
Coopers'—Barton's	12½%
White's	12½%
Ship—Barton's	12½%
White's	15%
Hunt's	25%

AGATE NICKEL STEEL WARE.

Agate Nickel Steel Ware ..... 35&10%

AMMUNITION

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1-10s	50c
G D	40c
Eley's	52c

CARTRIDGES.

Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs.	15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal.	10&10%
Peters Blank Ctgs. 32 cal.	10&10%
Peters B B Caps, Round ball	$1 18
Peters B B Caps, Conical ball	$1 90
U. M. C. Rim Fire Ctgs	50&3%
U.M.C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs.	15&5%
U. M. C Blank Ctgs. 22 & 32 cal.	10%
U. M. C. Blank Ctgs. 38 cal.	50-10-10%
U. M. C. B B Caps, Round Ball	$1 75 . 25&10%
U.M.C. B B Caps, Con. Ball	$2 00 net
U. M. C. Rim Fire Shot Ctgs	50&15&5%
U. M. C. Cent. " " "	25&10&3%

PRIMERS.

Berdan Primers	$1 00
Peters Primers	1 10
U. M. C. Primers	1 08
Winchester Primers	1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League	25&5%
Peters Empty Paper Shells, 16 gauge. League	20&5%
Peters New Victor Nitro shells	15%
Ideal	33⅓&10%
Peters Loaded Shells. League and Semi-Smokeless	40&5%
Peters New Victor Loaded Shells, with King's Smokeless	40&10&10%
Ideals Loaded with Kings Smokeless	40&10&10&5%
U. M. C, New Club, 16 guage	20&10%
U. M. C. New Club 10 & 12 gauge	33⅓&5%
U. M. C. New Club	33⅓&5%
U. M. C. Nitro	18%
U. M. C. High Base	18%
U. M. C. Trap	33⅓&10&7%
Winchester Blue Rivals	20%
Winchester Yellow Rivals	20%
Winchester Repeater	18%
Winchester Leader	33⅓&10&7%
U. M. C. Loaded Shells, Black Powder	40&5%
Winchester Loaded Shells, Black Powder	40&5%
U. M. C. Smokeless	40&10&10&5%
Winchester Smokeless	40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads	20&5%
U. M. C. Gun Wads	20&5%

POWDER.

King's Quickshot Powder; Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.	
King's Semi-Smokeless	20&5%
King's Smokeless	25, 20&10%
Austin Quickshot Powder. Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.	
Dupont Smokeless, Sporting	25, 20&10&10c

SHOT.

Drop shot, sizes smaller than B, 25 lb bags, per bag	$1 35
Drop shot, B and larger sizes, 25-lb bags, per bag	1 60
Buck Shot, 25-lb bags, per bag	1 60
Chilled Shot, 25-lb bags, per bag	1 60

ANVILS.

Hay-Budden, 70 to 84 lbs	10c per lb
Hay-Budden, 85 to 150 lbs	9c per lb

AUGERS AND BITS.

Snell's Boring Mach. Augers	60&10&5%
Snell's Car Bits, 12-inch twist	40%
Jennings' Pattern Auger Bits	50&10%
Russell Jennings' Augers and Bits	25&10%
Ship Augers, L'Hommedieu Bits	15%
Irwin	50%
Climax Bits	60&10%

AWLS.

Brad, handled	per doz. $ 35
Brad, shouldered, assorted 1 to 4	per gr. 2 00
Brad, shouldered, assorted 1 to 6	per gr. 2 50
Peg, Pat.	per gr. 60
Peg, shouldered	per gr. 1 00
No. 1, Scratch, handled	per gr. 4 80
No. 5, Scratch, socket	per doz. 6 00

AXES.

Lippincott	per doz	6 50
Mann	"	6 50
Second quality	"	6 00
Beveled axes, add	"	50
Broad—		
Peerless can patt	"	28 50
Hunt's		30
White's		12%
Hand—		
Hunt's		40
White's		12%
Ship—		
White's		12%

AXLES.

Common iron, long arm, sq. bed	5¼
Concord iron. long arm, sq. bed	6¼
Concord express, long arm, steel, square bed	6¾
Coach shape on above, ex. per. lb.	⅛
Short arms on above, extra per lb.	2
Welded axles on above, ex. per. lb	1½
Half Patent, steel, Nos. 7 to 14	70
Half Patent, steel, Nos. 19 to 22	70
Extra, coach shape, 1¼ & smaller	per set 15
Extra, coach shape, 1¼, 1½, per. set	30
Extra, coach shape, l'g'r, per. set	$1 00
National Wrought Steel Tubular, Self Oiling—	
Standard Farm (1 to 5) and Special Farm (A1 to A5) less than ten sets	20%
Over ten sets	25

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82	35%
Frary's	40%
P. S. & W.	30%

BELLOWS.

Blacksmiths	70%
Hand, 6½ in	per doz. $4 50
Molders', 10 in	per doz. 9 00

BELLS.

COW.

Ordinary Goods	70&10%
High Grade	60&10%
Jersey	75&10%
Texas Star	50&10%

DOOR.

Abbe's Gong	45%
Barton Gong	55%
Home, R & E. Mfg. Co.'s	55&10%
Lever and Pull, Sargent's	20&10&10%

HAND.

Hand Bells, Polished	60@60&10%
White Metal	55@55&10%
Nickel Plated	50@50&10%
Swiss	60%
Silver Chime	33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells	lb. 2¼ to 2½c
Steel Alloy, Church and School	50&10&5@60%
Wilmot & Hobbs Mfg. Co., Gongs	70%

BIT STOCK DRILLS.

Standard List ..... 60@60&5%

BLOCKS.

Common Wooden	70%
Eddy Steel Tackle Blocks	60⅔&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, list Jan. 30, 95	65&10%
Norway Iron, $3.00, list Oct. 7, '84	7 &10%
Bolt Ends, list Jan. 30, '95	50&10%
Machine, list Sept. 20, '99	65&10%

DOOR AND SHUTTER.

Ives' Patent Door	60%
Wrought Barrel, Standard list	7 &10%
Wrought Flush	40&10%
Wrought Square, Standard list	65%

STOVE AND PLOW.

Plow	40&10%
Stove, list December 28, 1899	70to70&10%

TIRE

Common, list Dec. 28, '99	70
Eagle Philadelphia	72½%
Norway	75%

BORING MACHINES.

Jenning upright without Augers..$2

BOXWOOD RULES.

No. 4	$11 00	per doz
" 12	16 00	"
" 18	6 00	"
" 26	11 00	"
" 27	13 00	"
" 29	4 50	"
" 66	10 00	"
" 66½	10 00	"
" 67	6 00	"
Boxwood	80&10%	
Ivory	40&10%	
Lufkin's Steel	50&10%	

BRACES.

Barber's	50&19%
Common Ball, American	$1 50
Fray's Genuine Spofford's	60%
Fray's No. 307 to 322	40&5%
Fray's No. 508 to 522	50%

BRACKETS.

Cast Iron Plain	50&10%
Wrought Steel	70&10 @ 75%
Bradley's	75 @ 75&10%

BROILERS.

Wire Goods Co. 75%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854	70%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848	70%
Bright Butts, Nos. 822, 822½, 823, 823½	70%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731	70%

CAGES—BIRD.

Enameled	40%
Brass 1200 series	33⅓%

CASTERS.

Bed	60&10&5%
Plate Casters	60&10&5%
Martin's Patent (Phoenix)	50&5%

CEMENT.

Asbestos Furnace Cement, 5 and 1 lb. Cans.
Per lb 5c

CHAIN.

American Coil, Cask lots:

3-16	¼	5-16	⅜	7-16	½	9-16
7.45	5.55	4.55	3.70	3.55	3.45	3.40

⅝	¾	⅞ to 1	1⅛ to 1¼ inch
3.40	3.35	3.35c. per lb.	3.60 per 100 lbs

Less than Cask lots add 25c.

German Coil, list July 24, '97	60&10&10%
German Halter Chain, list July 24, '97	60&10&10%

Traces, Western Standard:	100 pair
6½—6-3, Straight, with ring	$26.00
6½—6-2, Straight, with ring	27 00
6½—8-2 Straight, with ring	31 00
6½—10-2, Straight, with ring	34.50

Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.

Trace, Wagonand Fancy Chains Eastern list	60@60&5%
Jack Chain, lis July 10, '98	
Iron	60@60&10
Brass	60@60&10

Safety Chain.....70@70&10%
Gal, Pump Chain.....lb. 4½@4¾c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....50%
Covert Mfg, Co.:
Breast.....35&2%
Halter.....35&2%
Heel.....35&2%
Rein.....35&2%
Stallion.....35&2%
Oneida Community:
Eureka Coil and Halter...60@60&5%
Niagara Coil and Halters.60@60&5%
Niagara Cow Ties..45&5@45&10&5%
Am. Coil and Halters..50&10&5@60%
Am. Cow Ties.....35&5@40&5%
Wire Goods Co.:
Dog Chain.....60&10%
Universal Dbl-Jointed Chain 50%

CHALK.

Blue.....per gross 60c
Red..... " 50c
White..... " 45c

CHALK LINES.

Chalk lines.....per doz. $2 50

CHISELS.

Mix, Witherby.....70&5 to 70&10%

CHISELS.

Box.....20%
Tinners.....40%
Cold, per lb.. regular qual.....20%
Cold, per lb., special qual.....32%
Corner.....66⅔%
Firmer, American..... 20, 10&10%
Barton's.....20%
Butcher's.....40&10%
Mortice, Butcher's.....40&10%
Socket, Firmer.....70%
Framing.....70%
Turning, Barton's.....20%
Butcher's.....50%
Beveled.....20%

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers..... 50&10&5%

CLEANERS.

Pot.....per doz $1 10

CLEAVERS.

Beatty's.....dis 40
White's..... " 15

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No 20..... " 13 20
No. 8..... " 10 80
H. Hotchkiss Toilet Clippers
No. 1.....per doz 9 60
No. 101..... " 10 80
No. 201..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93....25%
Parker's.....50&10%
Arcade..... 60&10%

CORKSCREWS.

Howes..... 25 & 22%
Humason & Beckley..... 40 & 10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 40%
Williamson's Forged Worm 40%

DOG COLLARS.

Pope & Stevens' List:
Brass (full Assortment).....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%

DRILLS AND DRILL STOCK.

Common Blacksmith's Drill .....$1 50@$1 60
Bench Drills, Stearns' .... 5 50& 6 00
Blacksmith's Self-feeding, each, ...$5 00&$7 00
Breast, Millers Falls, each...$3 00 20%
Godell Automatic Drills, $12 00to$15 00

EGG BEATERS.

Standard Co.:
No. 5 Steel Handle Dover per gross.....$ 6 50
No. 10 Cast Handle Dover pr gr 8 00
No. 10 Steel H'ndle Dov'r pr gr 8 00
No. 15 Extra Heavy Steel Handle per gr..... 15 00
Rival per gr..... 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 6 50
No. 100 Regular Fam size pr gr 8 00
No. 102 Regular Family size tinned pr gr..... 9 50
No. 150 Large Fam size pr gr.. 15 00
No. 152 Large Family size tinned pr gr..... 17 00
Lyon's Standard size per doz.. 1 75
Wonder (S. S. & Co.) per gr.... 7 50

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standard Metal Key.....25%
B. & L. B. Co.
Redlich's Wood Faucets.
Red Cedar, Oak, Cherry, Cork Lined, Metal Key..... Net Prices.
Self Measuring:
Enterprise, per doz. $36 00.....40%
Cork Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.:
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key..40%
" " Boss Tin Key 50%
" " Victor Metal Key..50&10%
" " Duplex Metal Key....60%
" " Diamond Lock..... 40%
" " I X L Cork Lined ...50%
" " Reliable " " ..50&10%
" " Common " " 70%
" " Chicago " " 60%
" " O K " " 50%
" " Perfection Cedar..... 40%
Star.....60@60&5%
Star, Metal Plug new list... 40@40&5%
Lockport, Metal Plug, reduced list.....60&5%
McKenna, Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞ inch.....35%
Self Measuring:
Enterprise, per doz $36.00.....40%
Lane's, per doz. $36.00 .....40&10%
National Measuring, per doz $36.00.....40%

FILES—Domestic.

New List, Nov. 1, '99:
Black Diamond.....70&10%
Disston's.....75& 5%

Imported.

Stubs list.....5%

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&5%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....70%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size...65%
3 Tine Hay Forks, Std. Size..60&16⅔%
Four Tine Hay Fork, Std. Size 66⅔%
Socket Four Tine Hay Forks..66⅔&5%
Socket Four Tine Manure Forks...70%
Socket Four Tine Spading Forks .....70&5&5&2½%
Three Tine Hay Header and Baler Forks.....67½&2½%
Four Tine Hay Header and Baler Forks.....66⅔%
Grain or Barley Forks.....70&6%
Four Tine Manure Forks.....70%
Five & Six Tine Manure Forks.....70%
Spading Forks.....70&2½%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75%
Meadow and R. I. Hoes...75&5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes.....75&2%
Planter Hoes, Regular Pattern.70&30%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin. Shank Cot. Hoes 75&12½%
Cotton Chopper Hoes....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70@70&10%
Toy Ladies' and Boys' Hoes.....70&10to70&10&5%
Weeding Hoesand Rakes...70@70&5%
Potato Hooks.....65to65&10%
Hop Hooks.....60&10&2½%
Steel Garden Rakes.....70&2%
Steel Garden Rakes Stamped blank 70%
Turf Edgers.....60&5%
Steel Road Rakes..... 65%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.... ..65%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&10&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....50&10&7½%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc.....60%
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS CUTTERS

Woodward.....33⅓&10%
Red Devil.....33⅓&10%

GLUE POTS.

Tinned.....30%
Enameled.....35%

GLUE.

Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List

GREASE, AXLE.

Fraser's.....Net
Baum's Castorine.....Net

GRINDSTONE FIXTURES.

Stowell's..... Net
Reading Hardware Co.....Net

HAMMERS.

"Artisan's Choice." A. E. Nail.40&10%
Engineer's and B. S. Hand.....60%
Machinist's Hammers.....60%
Bell Face, A. E. Nail.....50
S. & H. Cos. No. 20 ....per gross. 5 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

Discs:
No. 0.....per doz $0 90
No. 1..... " 1 00
No. 2..... " 1 18
No. 3..... " 1 35
No. 4..... " 1 50
Bronze iron drop lat., per doz net $1 10
Japanned store door.....net 1 10
Barn door No. 5..... " 1 35
Chest and lift.....dis 50
Wood—
Saw and plane..... " 45
Hammer, hatchet, axe, etc.... " 45
Brad awl.....per gro. 45
Hickory firmer chisel, Apple firmer chisel, Socket firmer chisel, Socket framing chisel,.....25
File.....per gro. $2 80
Auger, assorted..... 5 00
Hoe, rake, shovel, etc..... 50
Cross Cut Saw—
Atkins' No. 1.....per pair 28
" No. 3 ..... " 18
" No. 6..... " 12
Triumph..... " 12
Common loop..... " 10

HANGERS.

Chicago Spring Butt Co.:
Friction.....25%
Oscillating.....25%
Big Twin.....25%
Cronk Hanger Co.:
Loose Axle.....60%
Roller Bearing.....60&10%
Lane Bros:
Parlor, Ball Bearing $4.00
Parlor, Standard 3.25
Parlor, New Model 2.75
Parlor, New Champion..... 2.40
Barn Door, Standard .....60&10%
Covered .....50&10&10&5%
Special .....60&10%
Lawrence Bros.:
Advance.....60%
Cleveland .....60&10%
Crown.....60%
New York.....60%
Peerless.....60&10%
Sterling 60%
McKinney Mfg. Co.:
No 2, Standard, $18.....60&10%
No. 1, Special, $13.....60&10%
Stowell Mfg. and Foundry Co.:
Acme Parlor Ball Bearing 40%
Atlas.....50&10%
Badger Barn Door.....50%
Baggage Car Door.....50%
Climax Anti-Friction.....50%
Elevator.....40%
Express.....50%
Interstate .....50&10%
Lundy Parlor Door.....50%
Matchless.....50&10%
Nansen.....60&10%
Stowell Parlor Door 50%
Railroad 50%
Street Car Door.....50%
Steel, Nos. 300, 404, 500.....60&15%
Wild West.....50%
Zenith for Wood Track 50%
Taylor & Boggis Foundry Co:
Kidder's .....50@50&10%
Wilcox Mfg. Co:
Bike Roller Bearing .....60&10%
C. J. Roller Bearing..... 60&10%
Cycle Ball Bearing.....50%
Dwarf Ball Bearing.....40%
Ives, Wood Track.....60&10%
L. T Roller Bearing.....60&10&5%
New Era Roller Bearing .....50&10%
O. K. Roller Bearing.....60&10&5%
Prindle, Wood Track 60%
Richards' Wood Track 60%
Richards' Steel Track .....50&10%
Spencer Roller Bearing.....60&10%
Tandems, Nos. 1 and 2.....60%
Underwriters' Roller Bearing....40%
Wilcox Auditorium Ball Bearing 20%
Wilcox Barn Trolley No. 123 ....40%
Wilcox Fire Trolley, Roller Bearing 30%
Wilcox Le Roy Noiseless Ball Bearing 40%
Wilcox New Century ....50&10&10%
Wilcox Trolley Ball Bearing.....40%

HATCHETS.

American Axe and Tool Co., Blood's, Hunt's, Hurd's, Mann's, Underhill's, C. Hammond & Son, Fayette R. Plumb.....40&10%to40&10 &5%

HAY AND STRAW KNIVES.

Lightning.....$6 50&$7 00

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind:
(Victor; National; 1868 O.P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo.)

No	1	3	5
Doz pair	$0.75	1.45	2.90

Mortise Shutter:
(L. & P., O. S., Dixie &c.)

No	1	1½	2	2½
Doz. pair	$0.60	55	52	45

Mortise Reversible Shutter, (Buffalo, &c.)

No	1	1½	2
Doz. pair	$0.65	.60	.55

Parker.....70@75%
North's Automatic Blind Fixtures, No 2, for Wood $9.00; No. 3, for Brick $11.50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's Nos. 11 & 13.....70&10%
Wrightsville H'dware Co.:
O. S., Lull & Porter.....80&2½%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....75&10%
Stenger's Positive Locking, Nos 1 & 3.....70&10&5%
Shepard's Noiseless, Nos. 60, 65, 55 .....70&10%
Niagara, Gravity Locking, Nos. 1, 3 & 5 .....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n. Nos 1, 3 & 5.....75&7½%
Buff. Gravity Lock., 1, 3, 5..75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No 75 .....75&7½%
Steamboat Gravity Locking, No 10 .....5&7½%
Pioneer, Nos 060, 45 & 5½..75&7½%
Empire, Nos. 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....60&10%
Stanley's Steel Gravity Blind Hinges, per doz. sets $1.30.....30&10%

GATE.

Clark's or Shepard's—Doz. sets:

No	1	2	3
Hinges with Latches	$1.90	2.50	3.85

Hinges only..... 1.30 1.90 2.90
Latches only..... 65 65 95
New England:
With Latch.....doz....@$1.55
Without Latch.....doz....@$1.25
Reversible Self-Closing:
With Latch.....doz....@$1.80
Without Latch.....doz ...@$1.45
Western:
With Latch.....doz $1.40@1 75
Without Latch.....doz. $0 95@1.80
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2... 65&2½%
Shepard's or Clark's, No. 3....55&5%

SPRING

Ho'dback, Cast Iron, gros. $8.00@8.25
Non-Holdback, Cast Iron.... ... gro. $6.75@7.25
Extra 10% often given on most of these hinges.
J. Bardsley:
Bardsley's Patent Checking.....15%
Bommer Bros.:
Bommer Spring Hinges 40%
Bommer Ball Bear. Floor Hinges.40%
Chicago Spring Butt Co.:
Chicago 20%
Floor Hinge.....40%
Garden City Engine House.....20%
Keene's Saloon Door 20%
Triple End.....40c
Hoffman Hinge & Foundry Co.:
No. 70 & 80 Holdback Detachable $8.50
Lawson Mfg. Co.:
Matchless 30%
Matchles Pivot.....35%
Pavson Mfg. Co.:
Oblique .....50&10%
Stover Mfg. Co.:
Ideal, No. 16, Detachable, per gr. $12.50
Ideal, No. 4 .....per gr. $9 00
New Idea No 1.....per gr. $9 00
New Idea, Double Acting.....45%

WROUGHT IRON

Strapand T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....75%
Heavy Strap Hinges.....80%
Light T Hinges.....70%
Heavy T Hinges.....66⅔%
Extra Heavy Hinges.....75&10%
Hinge Hasps.....60%
Cor, Heavy Strap.....80%
Cor. Ex. Heavy T .....75&10%
Screw Hook and Strap:
6 to 12 in.....lb. 3¼c
14 to 20 in.....lb 3¼c
22 to 36 in.....lb. 3 c
Screw Hook and Eye:
¾ to 1 inch.....lb. 5c
⅝-inch.....lb. 6c
½-inch.....lb. 7c

MISCELLANEOUS—

Hoffman's Steel Spring Butt Hinges 40&10%
Hoffman's OffsetRefrigeratorHinges 40&10%

HOLLOWWARE.

Stove Hollowware Ground.....50%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 290 .....&28c

BUSH HOOK.

No 1, Underhill $9 00
Bird cage 40%
Clothes line .....60&10&10%
Grapling.....50%
Ceiling.....60&5%
Coat and Hat .....60&5%
Harness .....60&10&10%

WROUGHT IRON.

Cotton, V. & B.....25%
Tassel and picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible.....45%
Brass .....net $2 0 %
Hooks and eyes, bright wire....8 &10%
Brass.....60&10&5
Fish hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard 70%
Extra 60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner.....60%
Extra.....50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50.....70c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65.....85c

KNIVES.

Standard List.....70&5%
Adjustable Handle.....25@33⅓%
Watrous.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Birch Rubber tip ⅋ gro.....$1 40
Door, Mineral.....⅋ doz. 65c
Door, Por, Jap'd.....⅋ doz. 75c

LADLES.

Reading.....Net
Sargent's.....Net

LANTERNS TUBULAR.

No. 0 Berger's "Ball Lift," per doz. $9 50.....40&10%
No. 0, Berger's "Ball Lift," Galvanized, per doz. $10 50...40&10%
No. 2 Berger's "Ball Lift," per doz. $13 00.....40&10%
No. 2 Bereer's "Cold Blast," per doz $16 00.....40&10%
No. 0 Berger's Dash Board, Japaned, Plain Globe, per doz. $13 00.....40&10%
No. 0, Berger's Dash Board, Japanned, Bull's Eye, per doz. $13 50.....40&10%
No 2, Berger's Dash Board, Japanned, Plain Globe, per doz. $17 00.....40&10%
No. 2, Berger's Dash Board, Japanned, Bull's Eye, per doz. $17 50.....40&10%

BULL'S EYE POLICE.

2¾-in. flash light, per doz. $3 50@$3 75
3-in flash light, per doz. ..4 00@ 4 25
4¾-in. regular, per doz.....3 50
3-in. regular, per doz.....3 57

LEMON SQUEEZERS.

Wood, Common, per gr., No. 0 $5 00; No. 1 $6 50; No. 2 $10 00.

Wood, Porcelain lined, No. 1 .....per doz $3 00@$3 50
Tinned Iron.....per doz. 1 25
Iron, Porcelain Lined, per doz.....3 2?@ 3 50
Jenning's Star...per doz. 1 85@ 1 90
King.....per doz.

LOCKS.

Plate 33⅓%
Slaymaker-Barry Co.....30&35%
Sargent & Co.....40, 40& 0%
Yale flat key.....net
L. & C, round kev.....30&10%
Reading Harding Co.....40%
L & C. flat key latches .....33&10%
Stearns' sliding door....net $15 00

CABINET.

Eagle.....33⅓%
Yale.....33⅓%
Eagle and Corbin trunk.....25%

PADLOCKS.

Wilcock's.....70%
M. W. & Co.....70%
Russell & Irwin 70%
Slaymaker Barry Co.....40%
Bohannon's brass.....20%
Yale.....net
Eagle 33⅓%
Eureka, Eagle Lock Co 40%
Corbin.....33⅓&10%

MALLETS.

Fiber Head Sterns.....30&10%
Hickory.....40%
Lignumvitæ .....40&40&10%
Tinners'. Hickory and Applewood, per doz. .....75c@$1 50

MATTOCKS.

Regular list.....70%

MOWERS, LAWN.

Cheap.....all sizes, $2 00@$2 10
Good.....all sizes, $2 50@$2 75
10 12 14 16-in
High Grade....4.25 4.50 4 75 5.00
Pennsylvania and Continental .....Net price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T.. .... 70&10%
Style A, (all steel).....60&10%
Style E, Low Wheel .....60&10%
Style E., High Whee.....70&10&5%
Drexel, low list, ...60%
Gold Coins, low list, ...60%
Dewey's.....Net price
All Day .....Net prices

NAIL PULLERS.

Giant, No. 1..... per doz., $18 00 40%
" No. 1½.... " 16 00. 40%
" No. 2..... " 15 00. 40%
Ajax.....Net prices.
Diamond B.....per doz., $ 9 00
Pipe.....per doz., 12 00
Eureka.....per doz., 10 00

NAIL SETS.

Octagon..... per gross, $8 00@$9 00
Round..... per gross, 8 00@ 9 00
annon's Diamond Point, per gross .....$9 00 Net

NUT CRACKERS.

Sargent's No. 12.....$1 50

OILERS.

Tin or Steel.....50%
Zinc.....50&10&5 to 60%
Malleable Hammers 35%
Malleable Hammers, old pat., same list .....Net

PADLOCKS.

Sargent Dog Collar 70%
Sargent Wrought Steel and Brass..80%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws.....25%
Blacksmiths'.....40%
P. S. & W.....25%

PIPE.

WROUGHT.

List February, 1898.
1¼ and under, plain.....50&2½%
1½ and under, gal.....50&2½%
1¼ and over, plain.....50&2½%
1½ and over, gal.....50&2½%
Boiler tubes.....50&2½%

PLANES.

Stanley Planes, No. 100.....$ 30 each
" " No. 130..... 35 each

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers 40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75 to 75&5%
Disston's.....60%

POACHERS.

Buffalo Steam Egg No. 1, per doz. $7 20. 50%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.5 ; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz.....$ 2 25
U. S. Liquid, 8 oz. cans, per doz. $1.25; per gr..... 12 00
Barkeepers' Friend Metal Polish, per doz. $1.75, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid 5 lb..... 16 00

POLISH—STOVE.

Dixon's ....per gross, $5 75
Dixon's Plumbago.....per lb 6½c

POPPERS, CORN.

Round or Square, 1 qt....per doz., 65%
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 00

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger....40%
Eureka Perfection Post Hole Digger, per doz.....$10 00
Atlas, per doz..... .... 8 25

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each..... 75c
Rifle, 1 lb each..... ....$1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6¼ lb kegs..... ..... 1 25
Rifle, 12½ lb kegs..... 2 25
Rifle, 25 lb kegs..... ..... 4 00

PRESSES—FRUIT AND JELLY

Enterprise Manufacturing Co.....25%

PULLEYS.

Hay Fork, Svl. Sd Eye, doz $1 75@$2 75
Hot House, Awning, etc.....50%
Japanned Clothes Line.....50%
Japanned Screw.....50&10%
Japanned Side..... .....50&10%
Sash (Auger Mortise):
Common Sense, 1¾ in ..per doz. 19c
Common Sense, 2 in per doz. 20c
Empire.... ....17c.; 2 in., 22c

SASH PULLEYS.

Fox No. 3 or No. 7, 2½ wheel, ...25c per doz
Fox No. 9, 1¾ wheel.....20c per doz
Extra for plated Finish... 25c per doz
Extra for Anti-Friction Bronze Bushing.....10c per doz

RAZORS.

Fox Razors No. 42 ...per doz. $20
" " " 44.... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus..... " 16 00

REGISTERS.

Black Japanned Registers, Ventilators, Faces and Borders, ... 60 to 60&10%
White Japanned Registers, Ventilators and Faces.....50%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze .....40&10%
Nickelplated.....60%
Electro-Plated in Brass, Bronze, Copper or Oxidized Silver....40&10%
White Porcelain.....20%
Solid Brass and Bronze Metal.....20%

RIVETS AND BURRS.

Coppered Iron Rivets..... 60&5%
Tinners Rivets.....60&5%

ROOFING SUPPLIES.

EAVE TROUGH.

"Perfection" Galvanized Eave Trough.....75&10%
"Eclipse" Galvanized Eave Trough .....75&10%
Double Bead Galvanized Slip Joint Eave Trough.....75&10%
Double Bead Galvanized Lap Joint Eave Trough.....75&10%

GUTTERS.

Roof Gutters, Galvanized.....7? &10%

PIPE.

Plain Round Pipe, Galvanized, Nested.....60&20&2½%
Plain Round Pipe, Galvanized, Unnested.....60&20%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%

HOOKS.

Flashing Hooks.....10%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....60%
Acme Galv.....10&10%
Acme Tin.....60&10%
Centennial Tin.....20%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....10%
Eave Trough Hangers, Single and Double Bead, Wire.....

ELBOWS.

One Piece Conductor Elbows, Galvanized, Corrugated..... 60%
Adjustable Elbows, Tin, ...50%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete..... ... $1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

Per lb.
Manilla, 7-16 inch diameter and larger.....10½c " "
Manila, ⅜ in.....10¼c " "
Manila, ½ and 5-16 in.....11½c " "
Sisal 7-16 in. and larger.....8c
Sisal, ⅜ inch..... 9c
Sisal, ¼ and 5-16 in..... 9c
Sisal, Medium Lath Yarn 10c

SASH CORD.

Braided, Drab.....lb 25c
Braided, White common..lb 17½@18c
Cable Laid Italian ....lb, A 18c, B 16c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton.....lb 17@18c
Massachusetts, white.....lb 22½c
Massachusetts, drab.....lb 20½c
Eddystone Braided, cotton ....lb 19c
Harmony Cable Laid Italian....lb 18c
Ossawan Mills:
Crown, Solid Braided, white ..lb 18c
Braided, Giant, white.....lb 17c
Peerless:
Cable Laid Italian.....16c
Cable Laid Russian.....14c
Cable Laid India.....12c
Braided India.....18c
Phœnix, white.....19c
Samson:
Braided, Drab Cotton .....lb 32½c
Braided Italian Hemp.....lb 32½c
Braided, Linen.....lb 49c
Braided, White Cotton, Spot.lb.28½c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@60&5%
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SAWS.

Atkins' Circular.....Net
Atkins' Band.....Net
Atkins' Cross Cuts.....Net
Atkins' Mulay, Mill and Drag.....40%
Atkins' One-Man Saw.....Net
Atkins' Circular Solid and Inserted Tooth.....50%
Atkins' Bands over 2 in. wide.....60%
Atkins' Bands under 2 in. wide.57&10%
Atkins' Mill, Mulay and Drag.... 50%
Atkins' Cross Cuts..... 40%
Atkins' One Man.....40&10%
Atkins' Narrow Cross Cuts.....40%
Atkins' Wood Saws and Blades.40&10%
Atkins' Hand Saws.....40%
Atkins' Compass Saws.....50%
Atkins' Butcher Saws.....40&10%
Disston Circular Solid and Inserted Tooth.....50%
Disston Cross Cuts.....Net
Disston Narrow Cross Cuts.....Net
Disston, Mulay, Mill and Drag....40%
Disston Framed Woodsaws.....35%
Disston Woodsaw Blades.....40%
Disston Woodsaw Rods.....25%
Disston Handsaws. Nos. 12. 99, 9. 16, D100, D8, 190, 76 77, 8.....25%
Disston Hand Saws, Nos. 7, 3.....30%
Disston Compass, Keyhole. etc....25%
Disston Butcher Saws and Blades.35%

SAW FILERS

Stearns'.....25%
Silent saw.....35%
Sargent's.....60&30%
Reading.....37½%

SCALES.

Family, Turnbull's .....30@30&10%
Hatch, Counter:
Platform, 4 lb. by ½ oz..doz...$5.75
2 Platforms, 8 lb, by ½ oz. doz $16 00
Union Platform, Plain.....$1.75@$2.00
Union Platform, Striped.. $1.85@$2 15
Chatillon's Eureka.....25%
Chattilon's Favorite.....40%
Chatillon's Grocers' Trip Scales ..50%
Pelouze Scales. Household Counter, Confect. Postal, Ice, &c.....50%
"The Standard" Portables.....45%
"The Standard" R. R. and Wagon 50%

SCREWS.

BENCH AND HAND.

Bench, Iron.....per doz. 60%
Bench, Wood, Beech..per doz. $3 50
Hand, Wood.....30%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point, list Sept. 20, 1899.....75@75&10%
Hand Rail, list Jan. 1, 1871..... ..75%

JACK SCREWS.

ack Screws.....70%

WOOD.

MANUFACTURERS' CIRCULAR PRICES.

New List.
pnatHead Iron.....87½%
uRoFl and Oval Head Iron.....85%
Flat Head Brass..... 85%
Round and Oval Head Brass.....82½%
Flat Head Japanned.....82½%

SCYTHES.

Blood's.....$ 8 50
Clover..... 8 50
Grain Clipper, Blood's..... 10 50
Hollow Clip..... 8 50
Silver Clip 8 50
Honest Dutchman..... 8 50

SHEARS.

	7	8	9 in.
Best.....	$16.00	$18 00	$20.00 gro.
Good.....	13.00	15.00	17.00 gro
Cheap....	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap.....70@70&10%
" Nickel.....60@60&10%
Fair qual. Jap.....80@80&5%
" Nickel .....75@75&10%
Tailors' Shears.....40@40&10%
Acme Cast Shears.....40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge 50%
Wilkinson's Sheep.....1900 list, 50%

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, pr sq.....$4 25
Eastlake I. C. Tin Shingles, galvanized, pr square.....$6 00
Octagon Fluted I. C. Tin Shingles, painted, per square..$5 50
Octagon Fluted I. C. Tin Shingles, galvanized. pr sq....$7 25

SIFTERS.

Eclipse.....per gr $15 00
Hunter's Genuine.....per gr $16 00

SKATE SHARPENERS.

Skate Sharp., Eureka, per doz $2 00 net
Washer Cutters, Woodard's per doz.....$2 50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x 8	$3 50 pr sq.	20x10, 18x10, 18x 9, 16x 8	$4 50 pr sq
22x11, 20x12, 18x12, 16x12, 14x10, 14x 8, 14x 7	$3 75 per sq.	16x10, 16x 9	$4 25 pr sq
		12x 7, 12x 6	$3 25 pr sq

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12, 22x11, 20x12, 14x 8, 14x 7	$3 00 pr sq.	20x10, 18x10, 18x 9, 16x10, 16x 8	$3 50 pr sq
	$3 25 pr sq.		

SNAPS.

German.....40@40&10%
Covert Mfg. Co.:
Derby.....35&2%
High Grade .....45@2%
Jockey.....40&2%
Trojan .....45&2%
Yankee.....35&2%
Yankee, Roller.....30&2%
Covert's Saddlery Works:
Banner .....60&10%
Crown.....60&10%
Model .....60&10%
Triumph .....60&10%
W. & E. T. Fitch Co.:
Bristol .....40&10%
Empire.....50&5%
German 40%
National .....50&5%
Perfect.....45%
Clipper.....50&5%
Champion.....40%
Security.....40%
Victor.....60&5%
Oneida Community:
Solid Steel.....65@65&10%
Solid Swivel.....65&10@65&10&10%
Sargent's Patent Guarded...66⅔&10%

SOLDERING FURNACES.

No. 3 Gems tin reservoir.....$6 00
No. 6 Gems copper reservoir..... 8 50
Gem Gas Pots..... 3 25
Clayton & Lambert No. 1 Fire-Pot 6 00
Clayton & Lambert's Special Fire-Pot..... 4 50

SPRINGS, DOOR.

Star (Coil) list Oct. '95.....net
Torrey's Rod 39 in. Per doz .....$1 20@$1 25
Warner's No, 1.....net 75

SQUARES.

Steel and Iron.....65, 10&5%
Nickel plated .....65. 10&5%
Try squares and bevels.....65, 10&5%
Disston's..... 45%
Bemis and Call, pocket.....30%
Winterbottom's try & mitre..... 30%
Starrett's.....25%

STAPLES.

Barbed Blind .....per lb , 10c
Poultry Netting.....per lb., 5c

STAPLE PULLERS.

Russell Staple Pullers..per doz., $9 00

STOVE PUTTY.

1, 10 & 25 pound Cans.....per lb., 5c
500 pound Kegs.....per lb., 4½c

STROPS.

RAZOR.

Emerson.....460 to 60&5%
Imitation.....20, 10&5%
Torrey's.....20%
Tower & Lamont.....per doz $4 00
04 Combination.....per doz 3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American.....90&40%
American Cut Tacks.....90&30%
Swedes Iron Tacks.....90&40%
Swedes Upholsterers' Tacks.....90&40&10%
Gimp Tacks .....90&40&10%
Lace Tacks .....90&40&10%
Trimmers' Tacks.....90&30%
Looking Glass Tacks .....70&10%
Bill Posters' and Railroad Tack90&40%
Hungarian Nails.....80&15%
Common and Patent Brads....80&10%
Trunk and Clout Nails.....80&10%

TRAPS.

GAME.

Oneida Pattern .....75&5@75&10&5%
Newhouse .....45@50%
Hawley & Norton.....65@5&70%
Victor (Oneida Pattern) .. 75@75&10%
Star (Blake Pattern) ....65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes .....8½@9c
Mouse, Round or Square Wire, doz. .....$0.85@1.00
American Pattern French Rat and Mouse Traps—
No 1, Detroit Marty Pattern, per doz $4 50; in ½ gro. lots, per doz $4.00
No. 2, Detroit Marty Pattern, per doz, $3.25; in ½ gro. lots, per doz.....$3.00
Detroit Marty Pattern Mouse, per doz. $2.00; in ½ gro. lots, per doz $1.75
Diamond Joe Mouse Traps, per doz.....60c
Diamond Joe Rat Traps, per doz.$1.00
Marty French Rat and Mouse Traps (Genuine:)

TWINE.

Flax Twine—

	BC	B
No. 9, ¾ and ½ lb. Balls...	20c	24c
No, 12. ¾ and ½ lb. Balls ...	17c	20c
No. 18, ¾ and ½ lb. Balls ...	14c	17c
No. 24, ¾ and ½ lb. Balls....	14c	17c
No. 36, ¾ and ½ lb. Balls...	13c	16c

Chalk Line, Cotton, ½ lb. Balls18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
2-Ply Hemp, 1½ lb. Balls (Spring Twine) .....12@15c
3-Ply Hemp, 1 lb. Balls.....12@15c
3-Ply Hemp, 1½ lb. Balls .....
2, 3, 4 and 5-Ply Jute, ½ lb. Balls....8c
Mason Line Linen, ½ lb. Balls 45c
No. 264 Mattress, ¾ and ½ lb. Balls 34c
Wool.....5½@6c

VISES.

Solid boxes.....40%
Parker's.....20%
Howard's.....35%
Bonney's.....35%
Trenton.....40%
Stearns'.....50%
Cheney's.....12½%
Massey's.....25%
Parallel.....30&5%
Holland's.....35%
Stevens'.....25%
Miller's Falls.....40%
Prentiss.....20%
No. 1, Rat each $1.12½; per doz. $12.00
No. 3, Rat, per doz. $6.00; case of 50.....$5.25doz
No. 3½, Rat, per doz $4.75; case of 72.....$4 25 doz.
No. 4, Mouse, per doz. $3.50; case of 72.....$2.75 doz.
No 5, Mouse, per doz. $2.75, case of 72.....$2 25 doz.
Schuyler's Rat Killer, No. 1, per gro. $30.00; No. 2, per gro. $30.00; Mouse. No 3, $18 00.....50%

FLY.

Balloon, Globe or Acme..... doz. $1.15@1.25; gro. ... $10.50@11.00
Harper, Champion or Paragon.... doz. $1.25@1.40; gro....$12.00@12.50

TROWELS.

Disston Brick and Pointing 30%
Disston Plastering.....25%
Disston "Standard Brand" and Garden Trowels.....40%
Never-Break Steel Garden Trowels..... gro. $7.00
Peace's Plastering.....30%
Rose Brick and Plastering.....25&5%
Woodrough & McParlin, Pl'st'ring

WASHERS.

LEATHER, AXLE—

Solid .....80&10&10@85%
Patent.....85&10@85&20%
Coil: ⅜ 11c, 1 12c, 1½ 13c, 1¾ inch. 15c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5.20 $4 20 $3 00 $2.80 $2.60
In lots less than one keg add ¼c per lb; 5-lb boxes add ½c to list.

CAST WASHERS.

Over ½ inch, barrel lots per lb .....1½@1¾c

WELL WHEELS.

8-in., $1.65@$1.75; 10-in., $2.00@$2 10; 12-in., $2.50@$2.75; 14-in., $4 25@$4.40

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@ 2½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36.....75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9, ...70@70&10%
Cop'd and Galv., 10 to 18, ...70&10@70&10&5%
Cop'd and Galv., 19 to 26.....75&7½@75&10%
Cop'd and Galv., 27 to 36.....75&10@75&10&5%
Tinned, 6 to 14.....75@75&5%
Tinned, 15 to 18 .....70&5@70&10%
Tinned 19 to 26.....70@70&5%
Tinned, 27 to 36 .....65&10@70%
Annealed Wire on Spools.....70&5@70&10%
Brass and Copper Wire on Spools .....60&5@60&10%
Brass, list Feb 26, '96.....25%
Copper, list Feb. 26, '96.....15%
Cast Steel Wire.....50%
Stubs' Steel Wire, $6.00 to £.....40%

BRIGHT WIRE GOODS.

List April 1, 1901.....85@85&10%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting....85@85&5
Ptd Screen Cloth per 100 ft $1.00@$1
Light Hardware Grade:
2-8 Mesh. Plain (8c list) sq ft... 1½c
2-8 Mesh. Galv. (8c list) sq ft....2½c

WRENCHES.

Agricultural.....70&10%
Case lots.....75&10%
Acme.....60&5%
Baxter's S..... 60&10%
Bull Dog..... 70%
Coe's Genuine.....40&10&5%
Coe's "Mechanic's"..40&10&10&5&5%
Alligator.....60&10&10%
Bemis & Call's:
Adjustable S.....35&5%
Adjustable S Pipe.....40%
Briggs' Pattern.....30&10%
Combination Black.....40&5%
Combination Bright.....40%
Cylinder or Gas Pipe.....55%
Extra Heavy.....45%
Merrick's Pattern.....50%
No. 3 Pipe, Bright.....55%
Bindley Automatic.....30%
Boardman's 33⅓%
Donohue's Engineer.....40&10%
Eagle.....50&10%
Gem Pocket.....30%
Hercules.....70%
Knife Handle, Machinists' (W & B.): 0&10%
Case lots.....50&5%%
Less than case lots.....6%
Improved Pipe (W. & B.).....50&10
Solid Handles, P. S. & W.....&10 &
Stevenson..... 56

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS.—H. W. T. JENNER, Patent attorney and mechanical expert, 608 F street, Washington, D. C. Established 1883. I make an examination free of charge and report if a patent can be had and exactly how much it will cost. Send for circular. Member of Patent Law Association.

PATENTS HUBERT E. PECK, 623 F St., N. W. Washington, D. C. Consulting Expert in Patent Causes, U.S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

Wanted—Small stock of Hardware $1,500 to $2,000, in exchange for southwestern Minnesota land. Address Box 140, Harris, Iowa. 3

For Sale—The best paying hardware store, tinware, pump, etc., business in southwest Mo. A good paying plumbing and tinshop business. Town of 7,000 inhabitants. Address "Box A21," care AMERICAN ARTISAN, Chicago, Ill. 3

For Sale—Tinning and plumbing business; good opportunity for good man with small capital; owner can not tend to it on account of other business. Stock for sale is worth $800. Address "Pan-American," care AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3

For Sale—Half interest in hardware stock of about $1,500, in southern Minn. Good opening. It will pay you to investigate. Reasons for selling. Address "O.K.," care AMERICAN ARTISAN, Chicago, Ill. 3

Wanted—Manufacturers of tin ware, hollow and granite ware, locks, builders' hardware, etc., to send me a copy of their catalogues and prices, as I am going to buy those articles in large quantities hereafter and want to buy them where I get the best value for my money. E. C. Alsmeyer, Cottage Grove, Wis. 2

Wanted—To buy one second-hand in good order, No. 54 or No. 154-30 in. adjustable P. S. & W. Tin Bar Folder. Address Frank E. Lahr, Loreda, Nev. 2

For Sale—Clean stock of hardware, stoves; tin shop, buggies and implements in connection located in one of the best farming counties in Illinois. Stock will invoice about $3,500. Cheap rent, best location in town; one other hardware store in town. Population about 1,400. Cheese factories, good schools, four churches, etc. Here is a good chance for you, who mean business. Reason for selling—going onto my farm. Address "Farm Hand," care of THE AMERICAN ARTISAN, 69 Dearborn, St., Chicago, Ill. 2

For Rent—The best hardware store; located on the best corner in the place. No old stock to buy. The town is in a most flourishing condition. This is an opportunity of a life time. Will some good, live hardwareman come and investigate. Don't come unless you mean business. Call on E. Meredith, 61 Webster St., Batavia, Illinois. 2

For Sale—Hardware stock and tin shop, established 12 years, on N. W. side of Chicago, with or without building. Address "N. W." care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

For Sale—Leading tin shop and pump business in good town in central Illinois. Address "Leading," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

$160 acre farm for sale or to exchange for stock of goods or good building. Valued at $4,000 to $5,000. Address "Box 28," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

For Sale—Slate and tin shop. Town 10,000 population, Westmoreland County, Pa. Splendid chance for a young man. Write L. H., care John Hamilton, Pittsburgh Pa. 2

For Sale—A fine hardware business. Failing eyesight compels us to dispose of our business. Main stock $8,000; business in 1900, $23,000. Clean and in fine location. Branch stock $1,600; in same city doing good business. Will sell one or both stocks to same party for cash or good security. No trade. This is a genuine good chance for any one wishing a paying hardware business and will pay to investigate. Address "W. D.," care of D. Stern, 69 Dearborn St., Chicago, Ill. 2

For Sale—Tin and slate roofing shop. Lots of work on hand. Town of 7,000 population. Allegheny County, Pa. Write L. H., care John Hamilton, Pittsburgh, Pa. 2

For Sale—Stock of hardware and harness supplies, in a live, new town of 125. Excellent territory, no competition in town. Member of Christian Church preferred. Invoice $3,000. Good reasons for selling. M. M. Heptonstall, Pioneer, Iowa. 2

For Sale—Stock of hardware, stoves and plumbing supplies. Will invoice from ten to fifteen thousand dollars in one of the best little cities in Illinois of about 5,000 inhabitants, within sixty miles of Chicago. Address "B. J.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago Ill.

Wanted—A small-sized safe that is in good condition. Weight from 300 to 500 lbs. Address Box 47, Huntley Minn. 2

For Sale—First-class stock of hardware, tinware and stoves. Invoice about $4,000. Southern Minnesota, best location in town of 2,300 people, good surrounding farming country. Tin shop in connection. Address "Box GZ," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—To buy stock of hardware or farm implements. Address P. O. Lock Box 227, Flanagan, Ill. 1

For Sale—320-acre highly improved farm, in Northern Central Iowa within 2½ miles of a good live County Seat town of 2,000 people. This class of property will advance rapidly; now is the time to buy. Might exchange for a good $4,000 stock of Hardware. Long and easy terms on balance. For further information address, N. I., care of THE AMERICAN ARTISAN, 69 Dearborn st., Chicago, Ill. 26

Wanted—To sell or exchange for a farm or clean stock of hardware, a flour and grist mill located in Central Wisconsin, Sauk County. For particulars write to Columbus Hardware Co., Columbus, Wis. 26

For Sale—First-class stock of hardware, stoves, tinware and buggies. Located in center of corn belt in Illinois. Will invoice about $3,500; in town of 1,600 inhabitants. Address, "Illinois," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Stock of hardware and stoves. Will invoice about $3,500. Also two-story iron clad building and shop, located in southern part of Wisconsin. Prospective buyers of first-class hardware business please investigate. Address, H. O., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—Hardware stock; from $3,000 to $4,000. Will give in part payment good income Iowa town property. Address J., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

For Sale—An established cornice, slate, tin roofing, furnace and steel ceiling business in Champaign, Illinois. Cornice brake new. Tinners' tools good. No bonus required. Reasons for selling, health will not permit owner to continue longer. Address, C. H. Russell, Champaign, Ill. 25

Wanted—Working partner, with from $500 to $1,000, in the tinning plumbing and heating business, practical man. Only shop in town. Population 2300, good country. Reference required and given. Address Lock Box 364, Stanley, Wisconsin. 24

For Sale—Clean stock of hardware and store in new town in northwestern Iowa, large territory, best corner in town. Splendid opening to run agriculture implements in connection. Cash only. Address Care Corner, THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 24

For Sale—A stock of hardware and stoves. We have stock of about $1,200 or $1,300, which we will sell for $1,000 cash. We have the finest tinners' tools in the city, also fixtures, wagons. We have no horse at present. A good stand for a hustler. Sickness is cause of selling. L. M. Matthews, 1850 Milwaukee Ave., Chicago, Ill. 24

For Sale—Tinshop, tools, stock and building, town 1,500 people, only one in place, 20 years established, doing $4,000 of business last season. Must be sold in the next 30 days. E. E. Edwards, Cerro Gordo, Ill. 24

TINNERS' TOOLS.

Wanted at Once—Set of tinners' tools. Send list and price. Address "W. H." care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3

For Sale—A set of tinner's tools in first-class shape; and square shears. Will sell cheap for cash. B. C. Bixler, Bakersville, O. 26

For Exchange—One new two-roller McClair butter worker, 100 lbs. capacity; corrugated roller; the perfection of hand work. J. T. McKim, Thorntown, Ind. 26

Wanted—A second-hand 8-foot Cornice Brake. Must be in first-class condition. Address, giving condition, price, etc., care P. O. Box 465, Erie, Pa. 25

For Sale—2 pair Hurlbut's double seaming roofing tongs, $12. 1 P. S. W. Folder, 104. Used only a short time, $27. Lots of other tools cheap. Graves Sheet Metal Works, Kansas City, Mo. 25

Tools for sale—An almost complete set of tinners' tools; list price $175; will cut off the $100 for cash; first call, first served. Address W. L. Eriksen, Joliet, Ill. 24

Wanted—30 inch squaring shears, second hand. Lees & Co., Two Harbors, Minn. 24

Wanted—A second hand 30-in. bar folder, must be in good shape: sent with privilege of examining. R. M. Bolinger, Florence, Ala. L. B. 383. 24

HELP WANTED.

We desire the services of an A No 1 tinner, familiar with furnace work, not over thirty or forty years old. Must be sober, active and able to give good references. To such a party a permanent position will be given and good wages. Inquire of the Barber Mfg. Co., Ashtabula, O. 3

2 good plumbers and 1 good tinner wanted at once. Good wages and steady work. H. J. Klinsman Co. Rochester, Minn. 2

Wanted—At once; two good plumbers and steam fitters; also one good tinner. Good wages and steady work. Must be sober and industrious. Address "Sober," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—At once, a good all-around tinner; one who can do plumbing and pump work; married man preferred. Good wages and steady employment to capable man. Address Flemming Bros., Armstrong, Ia. 2

Wanted—A German or Swede tinner; one who can do furnace work and clerk in store. Salary $10 per week and commission. Address J. W. Ryan, Salem, S. D. 2

Wanted—Foreman in stove mounting department, near Chicago, who understands every detail of stove manufacturing and the economical management of help. Address, stating experience, age, nationality, reference and wages expected. Address "Foreman," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago Ill. 2

Wanted—Tinner for in and outside work, who understands furnace work. Must be sober. Good wages and steady job to the right man. Must have references. Address "Outside Work," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—A young tinner, who can help clerk in store, speak german, not be afraid to work and has references, can get a steady job in Chicago. Address "Hardware Store," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Experienced stove salesman for Iowa and Minnesota, for a good line. Address "Good Line," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Tinner to make stove pipes, ash pans and mount todds. Bonnet-Nance Stove Co., Chicago Heights, Ill. 2

Wanted—A clerk for a general store who can put in about $500 in store as investment. A good chance for a hustler. Address "Box XYZ," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Experienced clerk for hardware store. Must be able to figure in builders' hardware. One who speaks German preferred and can give good references. Address "German," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Experienced bookkeeper for general hardware store. References required. Address "Bookkeeper," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Good tinners and cornice makers at once. Maresh Bros., Iowa City, Iowa. 1

Wanted—Traveling salesman thoroughly conversant with the tin plate and metal business. Address Merchant & Co., Inc., Philadelphia, Pa. 1

I would like a good all-around man to do inside and outside work. Single or married, good habits; right man can have steady work. Would like to have a man that speaks German as he is needed in the store as well as in the tin shop. A. W. Goldschmidt, Kinsley, Kan. 1

Wanted—Experienced clerk for general hardware store in south-eastern South Dakota. Norwegian preferred. Give references and state wages wanted. Address "General," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—A good A 1 tinner, capable of doing cornice and skylight work; also, furnace work. Good wages and steady work. None but steady, honest men need apply. W. R. Williams, Mason City, Ia. 26

Wanted—A good tinner and plumber for town in Iowa. The right man can get permanent employment. Don't write unless you are the right man. Address, "Want W." care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—At once, a good all-around shop man. Prefer one who understands plumbing and heating as well as tin work; married man preferred; must be sober. Give particulars and wages. Newton Bros., Fowler, Ind. 26

Wanted—A man or woman who can make clever water color sketches, to draw original designs for stoves, etc. Secondary position but chance for advancement if competent. If a modeler or wood-carver say so, and send sample sketch which will be returned. Previous experience in this line not absolutely necessary. Address, "Artistic," care of THE AMERICAN ARTISAN 69 Dearborn St., Chicago, Ill. 25

Salesman Wanted—For firstclass line of stoves and furnaces for western Iowa, for Kansas, for Nebraska. Practical men desired in each instance. Address "Box 22," care THE AMERICAN ARTISAN 69 Dearborn St., Chicago, Ill. 25

Wanted Young man who has had experience in applying composition ornaments either on picture frames or patterns. State experience, wages wanted, and when you can be seen. Address, "Art Work," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 25

Wanted A good all-around tinner; one who can do plumbing and hot water work preferred. Steady job all the year. H. D. A. Grebe, Barrington, Ill. 25

Wanted—At once; competent man in roofing, guttering, pumps general repair, some knowledge of hot air and steam heating. Competent in use of pipe dies. Must be alert, sober, steady; good job to right man. Write at once, state wages, references. Skinner Bros., Forest, Ill. 25

Wanted—First class tinner and furnace man at once. Steady job to right man. C. J. Stark, Ortonville, Minn. 24

Wanted—A combination plumber and tinner, steady job and good wages. Address Box 159, Deer Lodge, Mont. 24

Wanted—Traveling salesmen who call on stove, hardware and housefurnishing dealers, to sell flat wire door mats. Popular prices and good selling side line. Ægis Mfg. Co., Marshalltown, Ia 24

SITUATIONS WANTED.

Situation Wanted—By an enameler as superintendent or foreman; can produce sheet steel or cast iron wares successfully. Address "Enameler," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Situation Wanted—By a sober and reliable married man, with small family. Expert pump man; have clerked in hardware store, can do steam, hot water and gas fitting; have worked as helper in tin shop and putting up gutters and conductors. Steady work wanted. Iowa preferred. Address, "M," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2

Wanted—Position in tin shop; can do roofing, guttering, gasolene stove repairing and anything that comes into an ordinary tinshop. Have had some experience in furnace work. Strictly temperate and can furnish best references. Am not afraid to work and can clerk in store if needed. Address Box 473, Dwight, Ill. 2

Position Wanted—As tinner by a good reliable temperate, up-to-date young man. 7 years' experience. Reference given. Can come at once. Illinois preferred. Address Box 933, Portage, Wis. 1

An experienced stove and furnace salesman wants position with some first-class house to represent their goods in territory tributary to Minneapolis, Minn. Can furnish the best of references. "Furnace" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 1

Situation Wanted—July 15, by a practical furnace man and tinner. Can plan, estimate and set any furnace. Age 28; 10 years' experience; steady; temperate and reliable. Am partly deaf. Can give references from present employers. W. A. Salter, Lyons, Kansas. 26

Situation Wanted By an experienced traveling salesman who up to Jan. 15 was employed for 12 years in the stove business. Address, "Years," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 25

Wanted—Position in tin or cornice shop or in hardware store. Iowa preferred. Willing to work. Box 267, Mt. Ayr, Ia. 25

SPECIAL NOTICES.

Four first-class salesmen to travel with a steam automobile, placing agencies and selling a line of parts and specialties. Territory includes a portion of New York State, New Jersey, Pennsylvania and New England. Must have A1 references and be able to furnish cash security for carriage. Address Auto, care the American Artisan 69 Dearborn St., Chicago.

FOR SALE.

Tinning and furnace business in a rapidly growing town of 1,200 in Northern Indiana; only shop. Good opening for tinner who understands plumbing, as town is now putting in water works. Rare chance for man with small capital. Reason for selling am engaged in other business which requires all of my attention. Investigate at once. Address, LAKESIDE care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill.

SPECIAL NOTICES.

WANTED

Traveling salesman thoroughly conversant with the tin plate and metal business. Address

Merchant & Co., Inc.
Philadelphia, Pa.

WANTED

Stocks of hardware and stoves, ranging from $5,000 to $20,000, for which we will pay from 50 to 75 cts. on the dollar cash, or more if a good paying business. Give particulars. All correspondence will be held strictly confidential. Address

Box No. 58,
JACKSONVILLE, ILLINOIS.

Wanted Position

As manager or sales manager for stove foundry by a man having had varied experience, covering large territory; capable of managing a branch house; best of references can be furnished. Address "Box R" care 24

The American Artisan,
69 Dearborn Street, - CHICAGO, ILL.

WANTED.

Salesmen to sel steel ranges on commission. Address

"H. F. T."

care THE AMERICAN ARTISAN Chicago, Ill.

Wanted.

Salesmen calling upon stove trade, to handle line of steel ranges on commission. Address, with references,

"Box 411"

care THE AMERICAN ARTISAN, Chicago, Ill.

SPECIAL NOTICES.

WANTED.

A first-class stove salesman at good salary for territory west of the Missouri River. None other need apply. Address, giving references,

Box 206,
Memphis, Tenn. 26

SALESMEN WANTED.

Salesmen calling on the stove trade can learn of a profitable side-line by addressing

Independent Register Co.,
Cleveland, O. 26

YOUNG MAN

With good connections in British Isles and Continental Europe wishes agencies for a few lines of American manufacture. Prompt attention. References. Address

MONTAGUE,
39 Paradise Street,
Liverpool, Eng.

WANTED.

An experienced foreman in gasoline and oil stoves to take charge of machine shop, press and die room, capable of designing and handling dies and pushing through work at lowest cost and lots of it. Apply by mail, giving age, experience and reference.

The Monarch Stove & Mfg. Co., Mansfield, O.

WANTED

A member of Minnesota Retail Hardware Association, 15 years in retail business in Minneapolis, central location, prosperous business, desires active partner to help him enlarge and add jobbing department for city trade. Closest investigation solicited. Address

"Expander,"
care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

50 Hardware Ads...	50c
50 Bicycle Ads.....	50c
50 Furnace Ads.....	50c
50 Implement Ads..	50c
100 Steel Range Ads.	100c

Good Ads Pay.
These ads have been used by us and brought trade. Catchy headlines ready for printer. Stamps taken. Address, **H. P. Townley, Terre Haute, Ind.**

STOVE DEALERS

will make money and save money by using

DIXON'S GRAPHITE CEMENT.

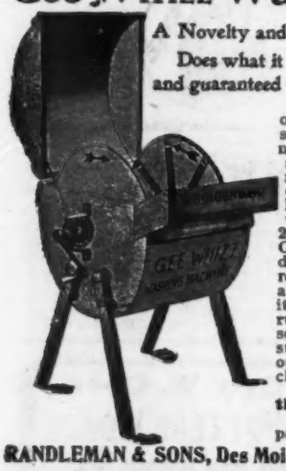
There is nothing equal to it for repairing fire brick in stoves, furnaces, etc.
Let us send you sample and prices.

JOSEPH DIXON CRUCIBLE CO., - Jersey City, N. J

PLECKER'S CORRUGATED EXPANDING CONDUCTORS.
Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

Clark, Quien & Morse, - Peoria, Ill.

Gee Whizz Washer



A Novelty and a Winner.
Does what it is intended and guaranteed to do.

Made without hoops or staves, will neither shrink, leak nor fall down. The labor saving washer of 20th Century. Our circular describes the reflex motion and tells why it whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.

You want the agency. Write for particulars to

RANDLEMAN & SONS, Des Moines, Iowa.

THE ORIGINAL

BRAMMER Rotary Washer.

An especially well made and light running machine and GUARANTEED TO GIVE SATISFACTION.

A simple, powerful and durable movement. This very substantial tub is made from a select quality of Cypress lumber.

Made also in the detachable leg style, as well as square.

We manufacture the most complete and satisfactory line of Washers on the market. Send for illustrated catalogue.

BENBOW-BRAMMER MFG. CO.,
1007 N. 13th Street,
FACTORIES: St. Louis, Mo., Davenport, Ia. **ST. LOUIS, MO.**

U.S. INFALLIBLE METAL POLISH

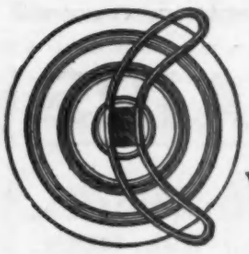
IN PASTE, LIQUID OR POWDER

FOR ALL KINDS OF METALS

Best, Cheapest, Goes Farthest. Never dries up or shrinks. Money makers for everybody. Sold by the jobbing trade. Sample free by mail. Address

GEO. W. HOFFMAN, MFGR.,
295 E. Wash St., INDIANAPOLIS, IND.
BRANCHES: 1 Park Row, NEW YORK CITY; 119 E. Madison St., CHICAGO, ILL.; 503 Montgomery Avenue, SAN FRANCISCO, CAL.
Established 12 years

THE Peerless Flue Stopper



Steel wire springs instead of sheet iron stays.
Stays where you put it, and is absolutely soot and smoke proof.
Made either plain or decorated.
Send for miniature sample and prices.

Welling Manufacturing Co.,
Columbus, O.

CHICAGO,
Milwaukee & St. Paul
RAILWAY.

ELECTRIC LIGHTED TRAINS BETWEEN

Chicago, Des Moines, Sioux City, Omaha,
Chicago, Milwaukee, St. Paul, Minneapolis,

EVERY DAY IN THE WEEK

All Coupon Ticket Agents sell tickets via Chicago, Milwaukee & St. Paul Ry.

F. A. MILLER, General Passenger Agent, CHICAGO, ILL.

THE ORIGINAL **H. F. Brammer Mfg. Comp'y**
(Incorporated 1888) DAVENPORT, IOWA.

MANUFACTURERS OF

The Original Improved Brammer Washer.
The Original O. I. C. Pendulum Washer.
The Original O K Rotary Ball Gearing Washer.
With Gold And Copper Bronzed Hoops And Castings.

WE LEAD. Others imitate. The superiority of our Washers is too well known, and dealers will not be misled by similar machines.

Quotations and particulars will be sent on request.

Send 10c. in Stamps for Free Sample of **"Solid-Steel" Lava Enameled Ware.**

The Cleveland Stamping and Tool Co., CLEVELAND, OHIO.

RUFUS SLOTHOWER, Shullsburg, Wis., writes: "I consider your manuals of inestimable value to the craft and no tinner can afford to be without The American Artisan."

M. Hosterman & Son, Marshfield, Wis., write--

"You may take our ad. out of THE ARTISAN as we have bought a kit of tools. We received 8 or 10 replies to the ad. and think your paper all right."

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

Repairs For all Stoves

Great Western Stove Repair Co.
MINNEAPOLIS, MINN.

Stove, Range and Furnace REPAIRS

OF ALL KINDS.

American Stove Repair Works,
186-188 West Seventh Street, ST. PAUL, MINN.

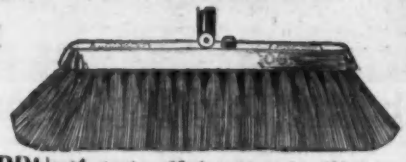
REPAIRS FOR ALL STOVES and RANGES.

A. G. Brauer, 316-318 North Third St., ST. LOUIS, MO.

NO MORE DUST.

"The World's Only"
Sanitary Dustless Floor Brush.

Sweeps without raising dust—prevents the stocks from getting dusty—kills germs. Is sanitary and clean.



THE PATENT RESERVOIR DOES IT!
Let us tell you how.

MILWAUKEE DUSTLESS BRUSH CO., Milwaukee, Wis.

PATTERNS

UP TO DATE
Wood and Metal for Stoves, Ranges and Furnaces to order.

W. L. Mersfelder,
400 East Pearl, CINCINNATI, O.

CLEVELAND, Ohio, July 8th, 1901.

TO THE STOVE TRADE:

We believe there is a chance for the consolidation of all, or nearly all, the stove foundries of this country into a gigantic trust.

This concern has not been approached and will not be a part of the scheme.

We shall continue, however, to make patterns for anyone having the price. Do you handle a hundred Oak stoves or steel ranges in a year? If so, it will pay you to own your own patterns—get castings from your local foundry, and quadruple your profits.

All correspondence confidential.

Yours respectfully,
THE GOBEILLE PATTERN CO.,
CLEVELAND, OHIO.

THE GEO. W. COPE STOVE PATTERN WORKS,
Randolph and Atwater Sts.
DETROIT, MICH.

Experience. Correctness.

Acme Pattern Works
STOVE and HEATER
Patterns
AKRON, OHIO.

Promptness. Satisfaction.

Indianapolis Artistic Pattern Works,
Cor. Fenneman and Minnesota Sts.
INDIANAPOLIS, IND.
Perfect Work. Right Prices.
Special Stove and Furnace Patterns.

Advertising is the root of all money.

TIME

Time Flies and the hardware dealer who is not handling the **Buckeye Brand of White Lead Ground in Oil** is losing money every day he puts off writing us.

Buckeye Paint & Varnish Co., Toledo, O.

It is made of Steel.

White Tile Top.

Tin or Brass Scoop.

Brass Dial.

IMPROVED

YOUNG AMERICA SCALE.

BEST IN THE WORLD.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20-pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY

AMERICAN CUTLERY CO., CHICAGO, ILL.

The Jersey Cream Separator

Separates cream from milk in less than one hour. The most simple, practical and reliable separator on the market. A sure seller. Sold to dealers only. Write for prices and circular to

THE

Galesburg Cornice Wks.,

GALESBURG, ILL.

Elgin Style.

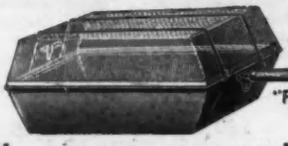
RAIL ROAD MILK CANS

These cans are made of Heavy Cold Rolled Steel. The covers and necks are made seamless; hence there are no seams for sour milk to collect in. A heavy steel washer is soldered to both cover and neck, thus preventing the holes from tearing out. The handles are heavy and of malleable iron—made solid. The handles are riveted to the breast with two heavy rivets on each side of the handle. All cans are lettered to order with 1¾ inch copper letters. **ALL LEADING DEALERS HANDLE THIS CAN.** Write us or prices.

Arthur A. Peterson & Co., Maple Park, Ill.

Manufacturers of Extra Heavy Dairy and Pieced Tinware.

A TRIAL WILL CONVINCE YOU THAT



MORE'S REVERSIBLE CORN POPPER.

"POPS THE CORN WITH OR WITHOUT THE SEASONING"

Sells best, because it meets all Requirements.

Made double to answer the purpose of two poppers; one side is made of wire, to be used when the corn is preferred popped dry (as in the ordinary popper). **The other side is made of steel,** to be used when the corn is preferred popped in the seasoning (like Grandma popped in the kettle). If your jobber will not supply you with these and my other specialties, write the manufacturer,

C. A. Chapman, 279 Exchange St., Geneva, N. Y.

Van Deusen Cake Molds and Egg Whip, "Crusty" Bread Pan.

SPERRY'S SUGAR KETTLES.

Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your Jobber for them or write us.

D. R. SPERRY & CO.,

HOLLOW-WARE FOUNDERS,

BATAVIA, ILL.

FRED. J. SWAINE

PRESSES. DIES.

Rolls Seamers. Sheet Metal Tools.

930-932 NORTH MAIN ST. St. Louis, Mo.

TACKS

TOWER M'F'G. CO.

ELM & FRONT STS.

CINCINNATI, O

MANUFACTURERS

$25 ON 5 TON IS WHAT YOU CAN SAVE

We make all kinds of scales.

Write for prices

ALSO B. B. PUMPS AND WINDMILLS.

BECKMAN BROS., Des Moines, Iowa.

BIG FOUR ROUTE

Chicago to { Indianapolis, Cincinnati, Louisville, the South and Southeast

Peoria, St. Louis, Indianapolis, Cincinnati, Louisville } To **New York** AND **The East**

W. P. DEPPE, A. G. P. & T. A. W. J. LYNCH, G. P. & T. A.

CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago

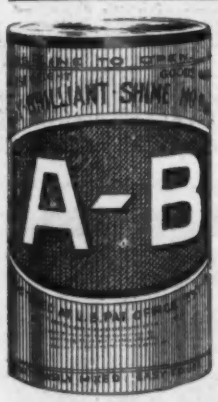
R. H. Fichtenmueller, Waukon, Ia., writes, "I could not get along without THE AMERICAN ARTISAN."

THE ADAMS STOVE PIPE REGISTER

Design Patented June 29, 1897.

Design Patented August 31, 1897.

Manufactured By **The Adams Company,** DUBUQUE, IOWA.



To Stove Dealers

NOTICE.

Do you know that the new A-B dealers' stove polish is made dry and you can thin it as you wish. It is the cheapest, brightest and easiest polish to use—no dust—no rust—waterproof. Keeps in any climate. Put up in 5 lb. boxes—Patented. No tin cans to pay for. Mixes quicker than paste; no drying up, good always. Used by a great many stove manufacturers who are sending duplicate orders. Send for price list, it will save you money.

AYLING BROS.,

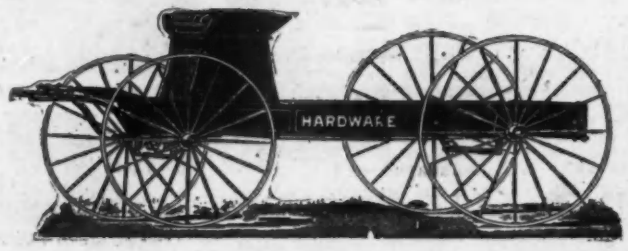
Sole Manufacturers and Patentees of A-B Stove Polish.

Office and Works, 14 Haddon Ave.,

Address Department A. CHICAGO, ILL.

A Special Hardware Wagon.

Low Down.
Short Turn.
High Wheels.
Saves the Heavy Lifting.
Makes Quick Delivery.
For Prices, Terms, &c., Address,



SHIPMAN, BRADT & CO., 305 North 3d St., DE KALB, ILLS

Artificial Light Revolutionized!

Merkel's Simplicity Incandescent Vapor Light.

An absolutely safe light.

Highly polished brass with gold finished ornament. **WALL LAMPS** Absolutely cheaper than gas or electricity.

THIS lamp consumes about one pint of gasoline in six to eight hours, and with the improved mantle produces a soft, steady and very brilliant white light, from 80 to 100 candle power. The Merkel Simplicity Light will not smoke or discolor ceilings.

Send for catalogue. Manufactured and patented by

H. MERKEL,

513-515 Elm Street, ST. LOUIS.

Standard Chain Company.

Chain of all Kinds.

Pittsburgh, Pa.

The Brohard Damper Clip,

Easily Adjusted

The Clip being malleable iron, will not break in riveting.

Cost no more than all cast.

Sample free to introduce.

Write us.

The Brohard Co.

Phila., Pa.

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

Peters Cartridges

Peters Cartridges

Peters Cartridges

LOADED WITH

King's Semi-Smokeless Powder.

PETERS .22 CALIBRE RIM-FIRE CARTRIDGES
won the National Sportsman's Exposition Tournaments, New York, in 1898, 1899, 1900 and 1901. The New England Sportsman's Tournaments and all the recent indoor rifle tournaments.

PETERS REVOLVER CARTRIDGES
made the highest scores at the long and the short range in the **International Revolver Match, 1900.** At Sea Girt Meeting, 1900, they won the Re-entry Revolver Match and the Revolver Team Match.

PETERS .45 CALIBRE GOVERNMENT CARTRIDGE
won these important matches at the Sea Girt Meeting, Aug. and Sept., 1900: Interstate Military Match; Regimental Team Match; Alicomers Military Match; New Jersey Rifle Association Trophy Match; Winchester Match.

KING'S SEMI-SMOKELESS POWDER

Won the Wimbledon Cup Match, Sept. 1900, 30 Shots at 1000 yards. This powder is the **Sportsman's All-round Powder,** Superior for long or short range shooting in Rifle, Revolver, Pistol and Gun.

The Peters Cartridge Co.,

Government Square, Cincinnati, Ohio.

EASTERN BRANCH: { T. H. KELLER, Manager, 80 Chambers Street, NEW YORK.

Peters Cartridges

Peters Cartridges

Sleeve or Flouncing Sad Iron.

The Blunt Nose is so shaped as to insure perfection of work and perfect freedom from destruction of garments from snags, etc., as so often is the case with sharp pointed irons.

These irons should be in every household. They are an absolute necessity. These Irons are made in Two Sizes, 3 and 4 lbs. each, the bodies being plated with Heat-Proof Aluminum Enamel; face, sides, nose, and heel highly polished. A ready seller.

Blacklock Foundry,

South Pittsburg, Tenn.

Lackawanna Railroad

The Scenic Line

TO

New York City

Palatial Solid Vestibuled Trains
Superb Dining Cars
(Meals a la Carte)

Observation Cars **Latest Pullmans**
Elegant Day Coaches

3 THROUGH TRAINS DAILY from CHICAGO 3

Leaving Chicago	Arriving New York
10.35 a. m.	3.35 p. m. next day
2.30 p. m.	7.30 p. m. next day.
10.30 p. m.	7.10 a. m. 2d day.

Rates $18.00 First Class
$16.00 Second Class

CITY TICKET OFFICE: 103 Adams Street
GEO. A. CULLEN, Gen'l West'n Pass. Agt.
CHICAGO

The No. 5 Fire Pot

Is light, strong, and capable of bearing hard usage. The flame is blue, free from smoke and intensely hot, heating the heaviest irons in half the time required by other makes. A kettle of solder can be kept hot enough to wipe joints, **and at the same time, without removing kettle, there is sufficient room and heat to keep soldering irons ready for use.** There is no other make of fire pot that will do this. Bear this in mind when you need one. The top section may be removed **thus exposing an open fire which may be used as a torch or brazing fire;** can also be used in taking soil pipe apart, thawing frozen pipes, or wiping overhead joints. We warrant it to please; your money back if it doesn't.

$4.50 Net.

Clayton & Lambert Mfg. Co.,
DETROIT, MICH.

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SACINAW, MICH.

O. C. Jamison, Homer, Ill., writes: "I FIND MY ADS. IN YOUR ESTIMABLE JOURNAL HAVE BROUGHT GOOD RETURNS."

OMAHA

is the center of a spider's web of railroads radiating all over the great west. Its splendid shipping facilities enable us to give the western dealer a prompt service that is utterly beyond the power of less favorably situated jobbers. The enormous stock of goods we carry makes ours the western hardware depot *par excellence.* Try us and find out if we don't give better service, better prices, better variety than your present hardware jobber. Send us your name and we will be pleased to put you on our list for trade literature.

Lee-Glass-Andreesen Hardware Co.,

Omaha, Neb.

DECISION OF THE

United States Circuit Court

SUSTAINING

Lalance & Grosjean Mfg. Cos.'s Label.

This label was originated and is used by us to distinguish our Absolutely Pure AGATE NICKEL-STEEL WARE from other goods containing either Arsenic, Lead or Antimony in the enamel coating.

The Court, limiting its decision to the use of the label only, rules as follows, under date of April 15, 1901: "Complainants may take a preliminary injunction against the use of the labels, Exhibit G (of the **National Enameling and Stamping Co.**) or of any similar labels, which, by the collocation of size, colors, shape, spacing and lettering may present as close a resemblance to complainants' label Exhibit F (**see copy of label adjoining**) as do the said labels, Exhibit G (on Granite Ware)."

NOTICE TO THE TRADE.

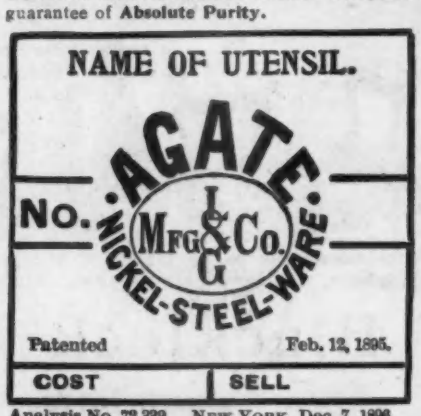
The trade is hereby notified that any sales of the so-called "Granite Iron or Steel Ware" under labels like our rectangular labels referred to in above decision is a direct infringement of our rights as established by the above adjudication and entitles us to claim damages.

Notwithstanding reports to the contrary, **we are NOT members of any "Trust" or "Association,"** nor have we entered into any "Gentlemen's Agreement" regarding prices on Tinned, Galvanized, Japanned or Enameled Wares, or any other goods we manufacture.

Lalance & Grosjean Mfg. Co.

CHICAGO. NEW YORK. BOSTON.

This is a copy of the **LABEL**, which is printed on **BLUE PAPER**, and pasted on each piece of **GENUINE AGATE NICKEL-STEEL WARE** as a guarantee of **Absolute Purity.**



Analysis No. 72,339. NEW YORK. Dec. 7, 1896.

We have made a careful examination of a sample of "Agate Nickel Steel Ware" received from The Lalance & Grosjean Mfg. Co., Nov. 30, 1896.

The enamel coating is homogeneous, of extra thickness, and great purity.

It is *entirely free from arsenic, lead* and *antimony*—metals so often found in enameled goods.

Very respectfully,
STILLWELL & GLADDING,
Chemists to the New York Produce Exchange.

Pierre de P. Ricketts, E.M., Ph.D. John H. Banks, E.M., Ph.D.
Analysis No. 14,180. NEW YORK, May 5, 1897.
LALANCE & GROSJEAN MFG. CO.

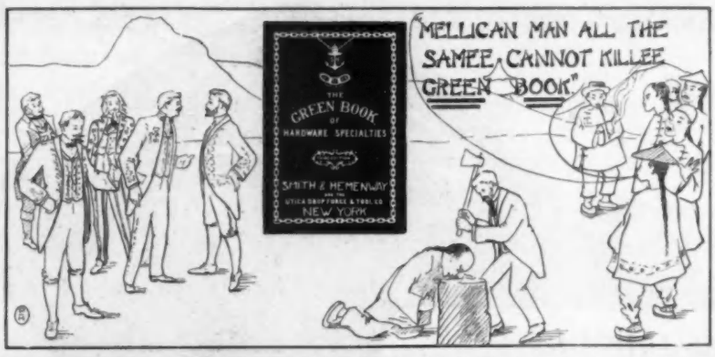
GENTLEMEN:—As requested by you, we purchased in the open market a sample of "Agate Nickel Steel Ware" and have made a careful chemical analysis of the enamel covering of the same.

We find this enamel is *absolutely pure* and *free from Arsenic, Antimony, Lead* and *other substances injurious to health.* We can therefore recommend it for all culinary and drinking purposes. Respectfully yours,

RICKETTS & BANKS,
Chemists to the N. Y. Metal Exchange.

Guaranteed Double Coated and Absolutely Pure

Copyrighted.



You Cannot

Afford to do without THE AMERICAN ARTISAN in your business. It costs but $2.00 a year for 52 issues. Send for our list of premium books.

The American Artisan,
69 Dearborn Street,
Chicago.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS **Sold by All Hardware Dealers**

NEW BRITAIN, CONN.

THE "DISSTON SAW" WILL DO MORE WORK WITH LESS EXERTION AND HOLD ITS CUTTING EDGE LONGER THAN ANY OTHER BRAND OF SAW.

Fully Warranted as to Material and Manufacture.

Henry Disston & Sons, Inc.,
Keystone Saw Tool Steel & File Works.
Philadelphia, Penna.

For Additional Information Send a Postal For Our Pamphlet "Practical Hints To Mechanics."

"ENTERPRISE"

Fruit, Wine *and* Jelly PRESS

Extracts *the* Juice *and* Ejects *the* Skins *and* Seeds in one operation

No. 34, $3.00

Meat Juice Extractor

No. 21, $2.50

Ice Shredders

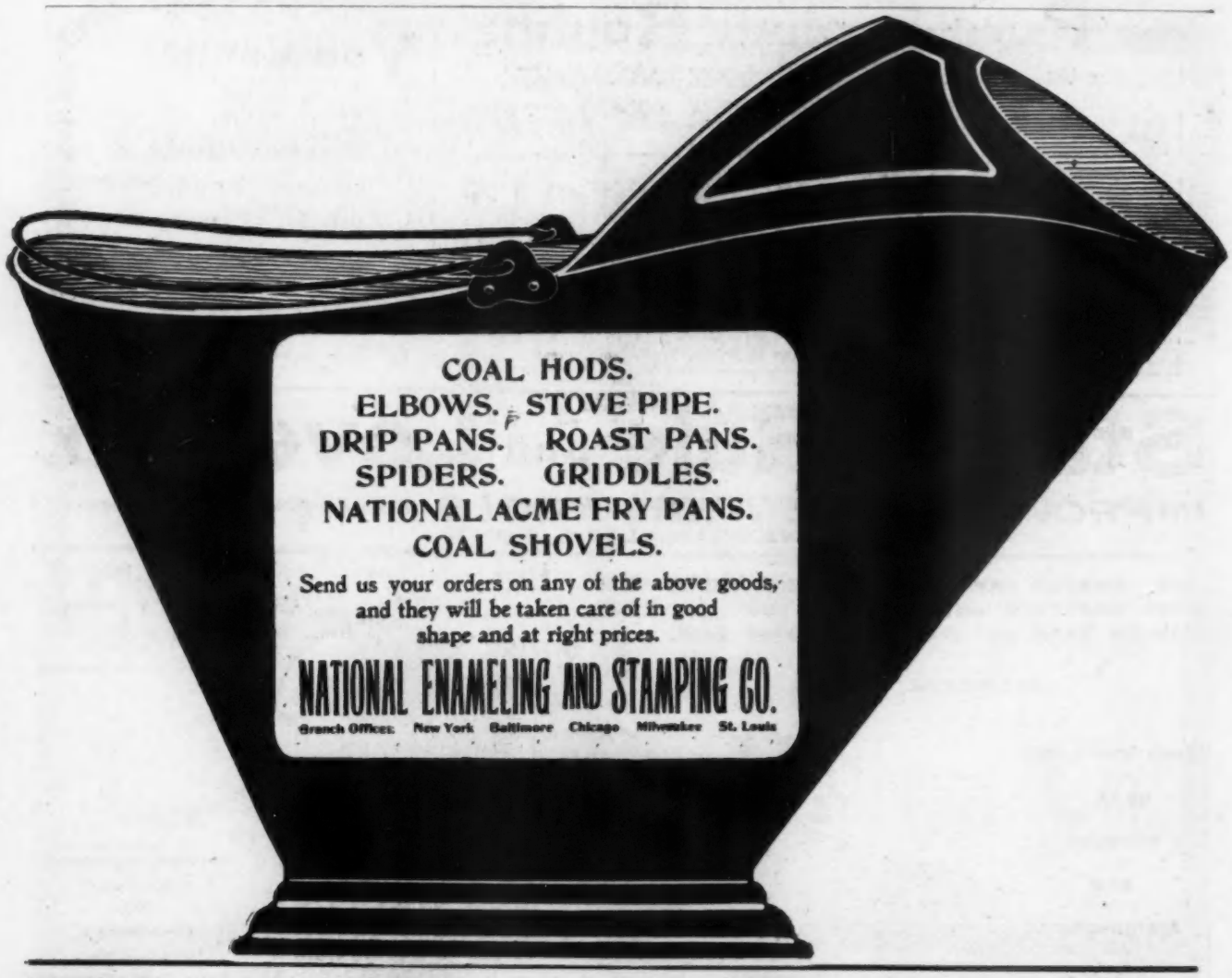
		per doz.
No. 33.	Tinned	$6.00
No. 34.	Nickeled	15.00

Descriptive Catalogue mailed Free **Order through your Jobber**

The Enterprise Manufacturing Co. of Pa., Philadelphia, Pa., U. S. A.

R. B. WARD, Belleville, Kas., writes:

"Please take my advertisement, 'Tinner Wanted,' out of THE AMERICAN ARTISAN. Your paper certainly reaches the craft. I cannot find time to answer all the applications coming in."



The Real Rogers Not in The Trust.

LOOK FOR THE INITIAL "TRADE MARKS"

Trade-Mark: **S C ROGERS C.**

Trade-Mark: **S C ROGERS BROS.**

To distinguish our goods from other Rogers, we use our initials in monogram as our trade marks. Goods bearing these trade marks are guaranteed to strip as much silver as any Rogers brand on the market

New Patterns of Superior Finish and Beautiful Designs.

The Simeon L. & George H. Rogers Co.,

Manufacturers of SILVERWARE.

P. O. Box 1205, HARTFORD, CONN.

FACTORIES: Hartford, Conn., Wallingford, Conn.

"Sampson Brand" **Pure Asphalt Roofing.**

Never Dries Out or Cracks. Pisnet Brand Tarred Ready Roofing, Slaters' Felt, Building Papers, Roofing Cements, Paints, Etc.

Write us for prices. **J. L. Perkins & Co.,** 241 Lake St. CHICAGO.

Iwan's Volcano Revolving and Ventilating Chimney Top

BEST IN THE WORLD.

Patented Dec. 13, 1892, and March 14, 1894. Reissued Oct. 7, 1893. Pat. in Canada Feb. 9, 1893, and Apr. 6, 1894.

BUY IWAN'S VOLCANO AND YOU WILL MAKE NO MISTAKE. SATISFACTION GUARANTEED.

Why Iwan's Volcano Revolving Chimney Top Excels all Others:

1st. The iron mountings are composed of only two parts, and no pins or wire are required to hold down cap.

2d. It protects chimney fully from rain, sleet and snow, and prevents all downward draft

3d It has a Deflector corresponding with Hood, by which is formed the sloped opening in back of hood, which creates a strong upward draught, and allowing free passage of smoke. No other chimney top possesses these advantages.

If iron mountings only are ordered, patterns for hood and vane will be furnished free of charge.

Write for our complete illustrated circular of post hole augers, post hole diggers, drain cleaners, drain and ditching spades, hay knives, conductor pipe hangers, etc.

Sold by the Jobbing Trade.

Iwan Bros., Mfrs. of Hardware Specialties, Streator, Ill.

"Eagle" Brand Copper Rivets and Burrs.

STANDARD FOR QUALITY. (Lake Superior Copper.)

—MANUFACTURED BY —

THE PLUME & ATWOOD MFG. CO.,

29 Murray St., NEW YORK. 196 Lake St., CHICAGO, ILL.

The Mighty Mite Camp Outfit.

Size, 9x8½x4 inches.

No. 4, for four persons, contains 33 pieces.
No. 6, for six persons, contains 44 pieces.

It is the smallest, neatest, and most compact camp outfit ever made.

Edw. E. McMorran & Co.

Manufacturers,

15-21 N. Clinton St., CHICAGO.

SOLD ON FIVE DAYS' TRIAL

The Ertel Full Circle, All Wrought Steel

Gem Baler

The LIGHTEST, the STRONGEST, the CHEAPEST CONTINUOUS TRAVEL HAY AND STRAW PRESS in the market.

Hundreds in use. Catalogue free.

GEO. ERTEL CO., Established 1857. PATENTEES AND MANUFACTURERS Quincy, Ill., U. S. A.

Faith in Advertising.

WITHOUT newspaper announcements no man who has commodities to sell or services to render can achieve as high a degree of success in business as he could with judicious advertising; and the success which newspaper publicity brings is worth many times its cost. A leading merchant of Syracuse (New York) says: "Most of the owners of large mercantile establishments who use newspaper space had their start under the same conditions that nine-tenths of the small merchants work under. They have had faith in advertising and the courage to buy space."

Garry Iron and Steel Roofing Co.

Roll Roofing.
Corrugated Iron.
Metal Shingles.
Clap-boards.
Siding.
Steel Bricks.
Window Casings.
Fire-Proof Shutters.
Eave Trough.
Conductor Pipe.
Elbows.
Cornice.
Skylights.
Finials.

Cor. Coe and Lake Streets, Cleveland, Ohio.

T. F. SCULLIN, MANUFACTURER. INDIANAPOLIS, IND. MFG'S PATENT ARTICLES, HARDWARE SPECIALTIES & NOVELTIES OF ANY DESCRIPTION MADE TO ORDER. PUNCHES & DIES. CORRESPONDENCE SOLICITED.

A Gas Stove Retailing for 25c.

With liberal discount to the trade.

Simple! Useful! Durable.

Always ready for heating water, milk, tea, curling irons, etc.

Can be transferred from one room to another.

Handsome and very profitable to the trade. Base and top grate cast-iron (coppered); body corrugated tin; wire gauze at top and an automatic mixer in base requiring no adjustment.

Place the stove over an ordinary gas burner and light on top of wire gauze.

Will not black or smoke.

Favorite Novelty Co., 139 Beaubien St., Detroit, Mich.

The wire netting being almost invisible flies do not see it and its strike makes no breeze to blow them away, so they are easily and quickly killed.

The "King" Fly Killer

Size 5x18 Inches.

Patented July 9, 1900.

Kills flies without crushing; can be killed on finest fabrics without soiling them.

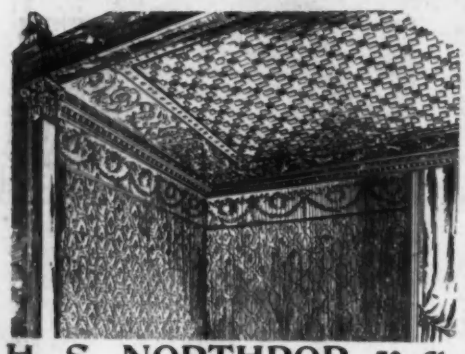
R. R. Montgomery & Co., DECATUR, ILL., U. S. A.

A drawing card for any merchant, for when once used party will never be without one. Sent to any address by mail for 15c. postage. Sample to trade free.

The American Artisan Manuals Handsomely and substantially bound. Highest authority in the particular field they cover. **Price, $3.50 each**

For Sale by DANIEL STERN, 69 Dearborn St., Chicago.

If
You Want
The Latest Designs,
and
Best Fitting
METAL CEILINGS
On The Market,
We Make Them.
Also
Cornice, Skylights,
Eaves Trough, Conductor Pipe.
J. H. ELLER & CO.,
Canton, Ohio.



Hardware Dealers Can Handle Northrop's Stamped Steel Ceilings

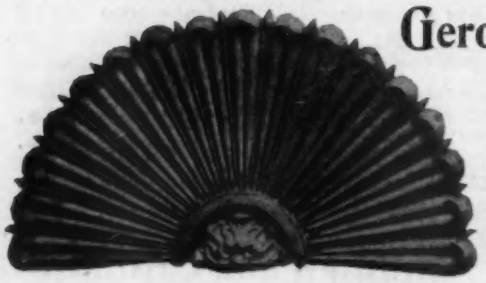
and do well for their customers and themselves. Send for catalogue—give diagram and description of room for an estimate and we will do the rest.

H. S. NORTHROP, 53 Cherry Street, NEW YORK.

VALVES AND PLUNGERS

Only the very best leather and rubber are used in these goods and all are carefully and evenly fitted, making them the best of their kind.

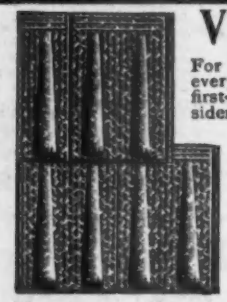
BERGER BROS. CO.,
PHILADELPHIA



Gerock Bros. Mfg. Co.
1252 MANCHESTER AVE.,
ST. LOUIS, MO.
Zinc and Copper Ornaments. Steel Ceilings. Skylights and Ventilators.
Catalogue on application.

THE QUICK SHIPPERS

We Manufacture
Cornices,
Skylights,
Finials,
Ridging,
W. J. BURTON & CO.
DETROIT, MICH.



VICTOR

For public buildings of every character where first-class roofing is a consideration, our galvanized
VICTOR SHINGLE
is unequalled.
Deeply embossed.
Presents attractive appearance.
Telescope Side Lock.
Catalogue fully describes them.

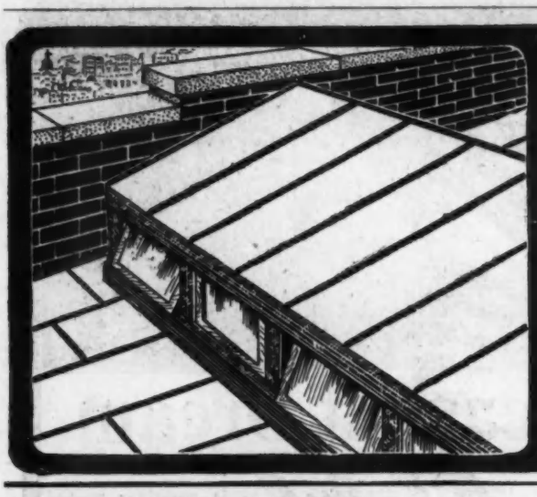
Montross Metal Shingle Co.,
CAMDEN, N. J.

The "Centennial" Rain-Water Cut-Off.

The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
Patent applied for. Manufactured only by
COONEY & GEIGER,
19 & 21 E. South St., INDIANAPOLIS, IND.

Bradner Smith & Co.
Paper Makers,
CHICAGO.
BUILDING,
WRAPPING,
WRITING,
NEWS,
BOOK
Paper
Send for Catalogue.

Enterprising Dealers should sell
STANDARD SELF MELTING WAX STRINGS FOR SEALING FRUIT CANS.
They are a great success and good sellers. Economical and sure. For descriptive circular and quantity price address,
C. C. FOUTS,
MIDDLETOWN, OHIO.



SKYLIGHTS

Of any style or design.

Frames of Galvanized or Copper, any kind of Glass.

No soaking between two layers of metal. All condensation discharged through weep holes to roof.

We make Conductor Pipe, Eaves Trough, Cornice, Fire Proof Doors and Shutters, Steel Ceilings and Side Walls.

Write for catalogue of designs and prices.

CANTON STEEL ROOFING COMPANY,
CANTON, OHIO.

JAMES A. MILLER & BRO.
129 So. Clinton St.,
CHICAGO.
Correspondence Solicited.

Corrugated and other
IRON ROOFINGS.
SKYLIGHTS,
CORNICES,
CONDUCTOR PIPES.
GUTTERS. ETC.

ROOFING

Roll and Cap
Standing Seam.
Corrugated.

PLAIN, CRIMPED, OR ROCK-FACED BRICK.

Eave Trough, Conductor Pipe, Elbows, Cornices, Skylights, Finials, Ventilators, Cut-Offs, Crestings, Etc.

La Crosse Steel Roofing and Corrugating Co., La Crosse, Wisconsin.

Write for Prices
IN
Roofing Slate

Auld & Conger,
MFG. & DEALERS, **Cleveland, O.**

S. C. SMITH, President — WM. BRAY, Treasurer — B. W. RIBBLE, Secretary
The East Bangor Consolidated Slate Co.
.... MANUFACTURERS OF ....
Laundry Tubs, Burial Cases, Urinal Stalls, Tiles, Genuine Bangor Roofing Slate and General Structural Slate.
EAST BANGOR, PENNSYLVANIA.

CLASSIFIED METAL CEILINGS

'Tis a pleasant subject, and a profitable one, too. Has it ever been presented to you? We should like to take it up with you. It means money.
Catalogue free.

Illinois Roofing & Supply Co.,
23 Lake Street, **Chicago.**

GRAY'S ELBOW PATTERNS.

From 1" to 40" in diameter in two sets. Set (a). From 1" to 20" in 2-3 and 4 pieces, made on blue print paper, post paid on receipt of $1.00. Set (b). From 20" to 40" in 5-6-7 and 8 pieces on blue print paper, post paid on receipt of $1.50 or both sets, 144 patterns, for $2.00. Full instructions with each set.

G. L. GRAY,
140-148 Ferris St., Galesburg, Ill.

"Nothing except the mint can make money without advertising."—Gladstone.

Persistence in Advertising

In the expansion of business now bringing profit to so many manufacturers, advertisers who have made themselves regularly prominent in the past five years have been notable in reaping the rewards of persistent publicity.

A Pleasant Dream.

The beauty of "Classik" BERGER'S METAL CEILINGS is something more than a pleasant dream—it is a pleasant reality.

Berger's "Classik" are the handsomest metal ceilings upon the market and are made in the greatest variety of patterns.

They are correct and harmonious in design and appearance.

Our dies are reproduced from clay models.

Our stamping is sharp, clear and well defined, and brings out the detail in bold relief.

Hence, our material combines the artistic effect of plastic relief with the mechanical excellence of sheet metal.

Berger's "Classik" Metal Ceilings can be applied to either old or new rooms, and over plaster or wood.

They make old rooms look like new and impart a handsome and lasting finish.

It will pay you to know all about them. Drop us a line for full particulars.

The Berger Mfg. Co., Canton, Ohio.

NEW YORK OFFICE: 210 East 23d Street, New York, N.Y.
PHILADELPHIA OFFICE 1013 Arch Street, Philadelphia, Pa.
NEW ENGLAND BRANCH: 176 Federal Street, Boston, Mass.
WESTERN BRANCH: 1428 North Broadway, St Louis, Mo.

SPECIALTIES: Ceilings, Roofing, Siding, Eave Trough, Conductor Pipe, Etc., Etc.

THE BERGER MFG CO CANTON O.

We Own and Control Our Plant and Our Product is the Standard for Quality.

High Grade Roofing and Bright Plates "Star" ★ Ventilators, Metal Tiles, "Spanish" and Graduated, Solders, Babbitt and Type Metals, Bar Tin and Lead.

Manufacturers, Importers and Jobbers Galvanized and Black Sheet Iron, Sheet Copper, Sheet Brass, Sheet Zinc, Brass and Copper and Iron Wire, Brass and Copper Tubing and Rods.

Merchant & Co., Incorporated.

PHILADELPHIA, 517 Arch Street. NEW YORK, 245 Water Street. CHICAGO, 46 So. Clinton Street. BROOKLYN, 584 Flushing Avenue.

American Tin Plate Company

MANUFACTURERS . . . . .

Tin Plate

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. . . and . . .

Black Plate

GENERAL OFFICES: Battery Park Bldg. New York.

Old Dominion Horse Shoes.

Illustrated Catalogue and Prices on Application.

Old Dominion Iron & Nail Works,

RICHMOND, VA., U. S. A.

ARTHUR B. CLARKE, President.

SEVEN DEVELOPED GOLD MINES.
60 ACRES OF GOLD ORE
at Cripple Creek, Colorado.

This property is Estimated to be now Worth More than $10,000 per Acre and will be Worth over One Hundred Thousand Dollars per Acre, with Proper Development. **CAPITAL STOCK $1,000,000, DIVIDED INTO SHARES OF $1.00 EACH, FULL PAID AND NON-ASSESSABLE. The Arena Company offers 50,000 Shares at 50 cents each in a property that is worth over $600,000.** For the purpose of raising money to purchase the necessary machinery to make the mines produce daily fully **Three Thousand Dollars in Gold,** thus enriching every individual shareholder according to the shares he holds. **YOU CAN BUY ANY NUMBER OF SHARES YOU WISH,** and make more money than can be made in any other line of investment. The gold ore is in these seven developed mines. There are three thousand feet of ore in a vein, and these veins are true mother veins, held within walls of granite, placed there by nature. The Company has already developed this property to demonstrate that it is one of the largest gold properties of the Cripple Creek District which is the greatest gold producing camp on earth, its output last year aggregating **$24,000,000, or nearly double the amount produced in the whole State of California. At 50 cents per Share the Company is giving you a discount of 10 cents per Share to start with, making 20 cents on the dollar.** The reports on these mines, made by one of the best mining engineers in the State, succinctly describe these improvements.

The Arena Gold Mining and Milling Co. :: 801 Equitable Building, DENVER, COLORADO.

CHAS. E. MARIS, Williamsburg, Ia., WRITES: "THE AMERICAN ARTISAN certainly has a large circulation from the inquiries I received."

Tools FOR SHEET METALS

Niagara Brake Mounted Groover.

Tinsmiths' / Roofers' / Cornice Makers' } TOOLS

SHEARS, PRESSES and DIES, PUNCHES, ROLLS.

MADE BY

Niagara Machine and Tool Works

Send for Catalogue A. Buffalo, N. Y.

Our "Confidential" Catalogue No. 115

Intended **exclusively** for the Legitimate

Hardware Trade,

Contains a bargain list of merchandise bought by us at

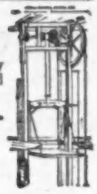
Sheriffs', Receivers' and Manufacturers' Sales.

Write for it to-day.

Chicago House Wrecking Co.,

West 35th and Iron Sts., CHICAGO.

ELEVATORS



Improved, Quick and Easy Rising Steam and Hand Power.

Kimball Bros. Co.
1061 9th Street
Council Bluffs, Iowa
Omaha Branch,
108-110-112 North 11th St.

If a Tinner loses a job to the slater he naturally feels badly about it, and when he finds out that he could just as well have had the order he feels five times as bad—Cortright Metal slates.

Cortright Metal Roofing Co.,
50 N. 23rd ST. PHILA.

HOMESEEKER EXCURSIONS

On First and Third Tuesdays in each month to

VIRGINIA,

Via NORFOLK & WESTERN RAILWAY.

For all information as to RATES and TICKETS and for LAND PAMPHLETS and descriptive matter, address **ALLEN HULL,** D. P. Agt., Columbus Ohio.

Geo. W. Brown, Jr., Hillsboro, Ill., writes: "You may kindly discontinue our WANTED TINNER adv. that you have so kindly carried for us the past three issues. I have received replies from Vermont to Dakota, and think that we have secured a good man."

Pan-American Route

Between CLEVELAND and BUFFALO.

STEAMERS CITY OF BUFFALO AND CITY OF ERIE.

Both together being without doubt, in all respects, the finest and fastest that are run in the interest of the traveling public in the United States.

TIME CARD—DAILY—APRIL 15th to DEC. 1st.

Leave Cleveland 8 p. m. Arrive Buffalo 6:30 a. m. | Leave Buffalo 8 p. m. Arrive Cleveland 6:30 a. m.

ADDITIONAL SERVICE DURING JULY AND AUGUST DAILY EXCEPT SUNDAY.

Leave Cleveland.....8:00 a. m. | Leave Buffalo.....8:00 a. m.
Arrive Buffalo.....6:00 p. m. | Arrive Cleveland.....6:00 p. m.
Leave Cleveland Tuesdays, Thursdays and Saturdays 5 p. m. Arrive Buffalo 5:30 a. m.
Leave Buffalo Mondays, Wednesdays and Fridays 5 p. m. Arrive Cleveland 5:30 a. m.

All Central Standard Time. Orchestra Accompanies Each Steamer.

Connections made at Buffalo with trains for all Eastern and Canadian points, at Cleveland for Detroit and all points West and Southwest.

Ask ticket agents for tickets via C. & B. Line. Send four cents for illustrated pamphlet. SPECIAL LOW RATES CLEVELAND TO BUFFALO AND NIAGARA FALLS EVERY SATURDAY NIGHT, ALSO BUFFALO TO CLEVELAND.

W. F. HERMAN, General Passenger Agent, Cleveland, O.

C. R. SIPES, Arkansas City, Ark., writes: "We could hardly keep house without The American Artisan."

Don't Be Deceived but insist on

McClure's Genuine Charcoal Iron Redipped Roofing Tin.

McCLURE & CO.,
Manufacturers of Tin Plate,

PITTSBURGH, PA., 211, 213 and 215 Second Ave.
PHILADELPHIA, PA., 115 North 7th Street.

STEVENS

Fire Arms are Standard

They are the Most Profitable Line to Handle.
Ready Sellers and Always Give Satisfaction.

Our Catalogue is of interest to both dealer and user. All leading jobbers handle our complete line.

J. Stevens Arms & Tool Co.,
No. 245 BROADWAY,
CHICOPEE FALLS, MASS.

THE J. M. & L. A. OSBORN CO.

TIN PLATE, SHEET METALS,
Tinners', Roofers' & Builders' Supplies.

26-36 The Viaduct, CLEVELAND, O.
Columbus Branch, 39 Vine St.

THE HARRINGTON & KING PERFORATING CO.
212 N. UNION ST. CHICAGO.
SCREENS OF ALL KINDS.
PERFORATED METAL
OF EVERY DESCRIPTION

—IF—
it's as good as the
Taylor
"Old Style"
it will cost you
MORE

Stocks Carried at
Chicago, St. Louis,
Omaha, Kansas City.
For Sale by all Jobbers.

"A Lucky Pocket Piece

is something every Mill-Owner and Supt. and foreman and filer and sawyer wants. The way to get it is to write for it and give the name of some other good MILL MAN, SUPT. OR FOREMAN OR FILER OR SAWYER."

E. C. Atkins & Co. Inc.
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BRANCH HOUSES: Memphis. Minneapolis. Atlanta. Portland, Ore. New York City.

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